"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

Freud, G. Über das Randwertproblem dritter Art der Potentialtheorie. Magyar Tud. Akad. Alkalm. Mat. Int. Közl. 3 (1954), 223-238 (1955). (Hungarian. Russian and German summaries)

The author gives an explicit formula for the Green's function of the Laplace equation with respect to the third boundary value problem $T+dT/dn=0$, in case of the half plane and half space. With [illegible] boundary value problems [illegible] domains.

[illegible] (New York, N.Y.)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G.; BOGNAR, J.

FREUD, G.; BOGNAR, J. Calculation of the quantified energy levels of a dipole rotator in an electric field. p. 239.

Vol. 3, No. 2/1, 1954 (published 1955).
KOZLEMENYEI.
SCIENCE
Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

HUNG.

Freud, Géza. On a theorem of Paul Erdős and Paul Turán. Magyar Tud. Akad. Mat. Fiz. Oszt. Közl. 4, 209-217 (1954). (Hungarian)

Hungarian version of a previous paper of the author [Acta Math. Acad. Sci. Hungar. 4, 255-266 (1953); MR 15, 620].

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

"Convergence of the Hermite-Fejer interpolation processes."
Acta Mathematica, Budapest, Vol 5, No 1/2, 1954, p. 109

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

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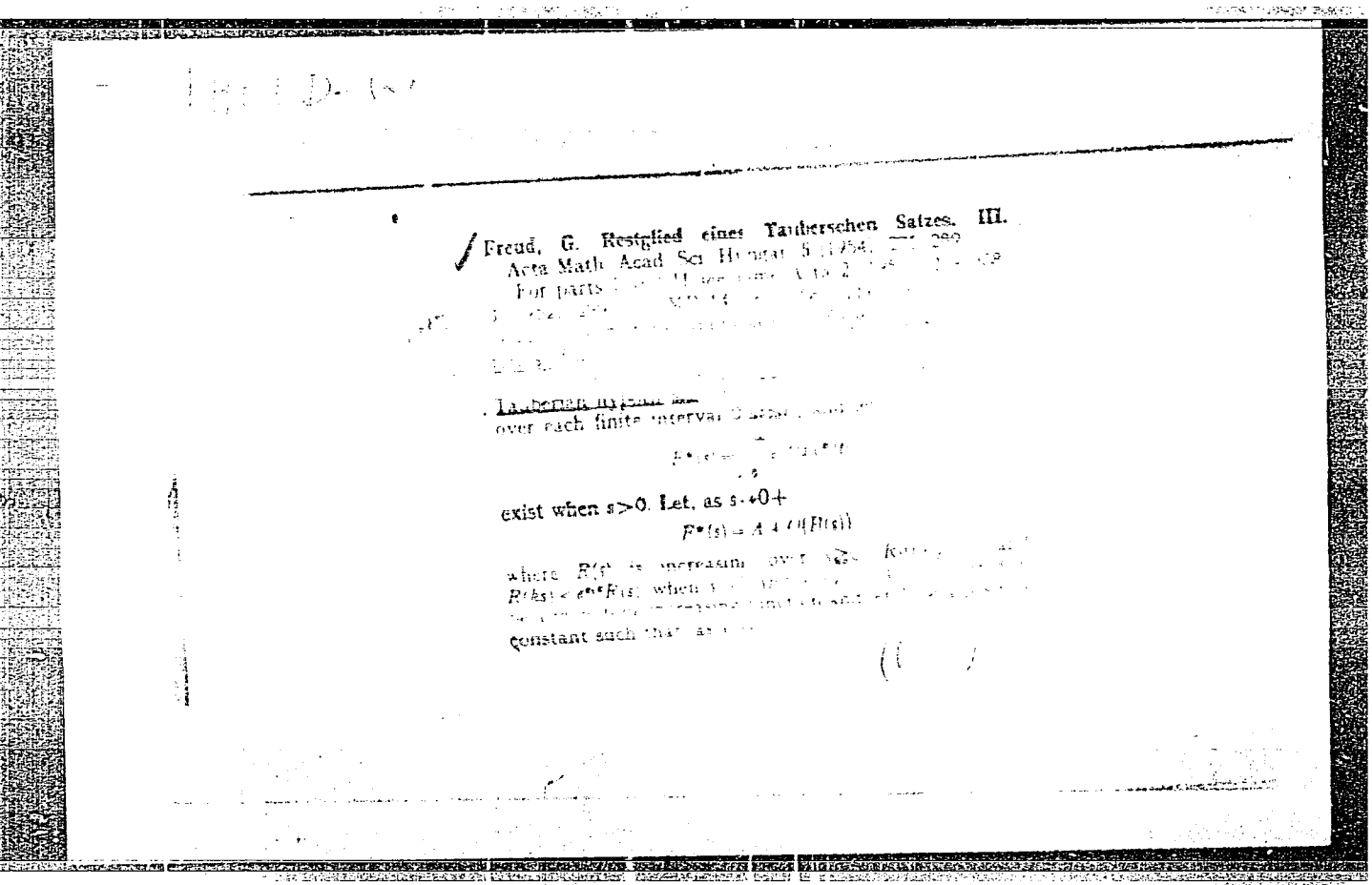

Freud, G. Restglied eines Tauberschen Satzes. III.
Acta Math Acad Sci Hungar 5 (1954), [illegible]
For parts [illegible]

Tauberian hypothesis [illegible]
over each finite interval [illegible]

$$F^*(s) = \int_0^\infty e^{-sx} dx^*(t)$$

exist when $s>0$. Let, as $s \to 0+$

$$F^*(s) = A + O(R(s))$$

where $R(s)$ is increasing over [illegible]
$R(ks) < e^{\alpha s} R(s)$ when [illegible]
[illegible]
constant such that as [illegible]

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Arnold, 6.

$$\int_0^\infty e^{-st}\,d\beta_x(t)=\frac{1}{s}[1+O\{R(s)\}]$$

and the function $\gamma_x(t)$ defined by

$$\gamma_x(t)=L\beta_x(t)+\int_0^t u\,d\beta_x(u)$$

is a monotone increasing function of $t$. Then, for each $n=0, 1, 2, \cdots$,

$$\int_0^x (x-t)^n\,d\gamma^*(t)=A\frac{x^n}{n!}\left[1+O\left\{\left(\log\frac{1}{F(1/x)}\right)^{-n-1}\right\}\right]$$

as $x\to\infty$. Related theorems and applications to Dirichlet series and power series are given. R. D. Agnew

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G

Freud, G. Über orthogonale Polynome. Acad. Math. Acad. Sci. Hungar. 5, 291–298 (1954). (Russian summary)

The $p_n(x)$ are the orthonormal polynomials with respect to a non-negative weight function $w(x)$ in $(-1, 1)$. In an earlier paper [same Acta 3, 83–88 (1952); MR 14, 467] the author proved that the corresponding Fourier series of an $f \in L^2$ (with respect to $w$) is strongly $(C, 1)$-summable at almost all points $x$ where (*) $\sum_0^{n-1} p_k^2(x) = o(n)$. Earlier results point to the (improved) conjecture that (*) holds for almost all $x$ where $w(x) > 0$. In this direction it is now proved: I. Let $W(\vartheta) = w(\cos\vartheta) \sin\vartheta$ in $(0, \pi)$, and 0 otherwise. If, for small $h$,

$$\int_0^\pi \frac{|W(\vartheta+h) - W(\vartheta)|}{W(\vartheta)} d\vartheta = O\left(\log^{-\alpha} \frac{1}{|h|}\right) \quad (\alpha > 1),$$

then (*) holds almost everywhere. II. At almost all zeros of $w$ one has $n^{-1}\sum_0^{n-1} p_k^2(x) \to \infty$. *W. W. Rogosinski.*

Freud, Géza. On orthogonal polynomials. Magyar Tud. Akad. Mat. Fiz. Oszt. Közl. 5, 21–27 (1955). (Hungarian)

Hungarian version of the paper reviewed above.

1 - F/W

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

**Freud, G.** Über das gliedweise Differenzieren einer orthogonalen Polynomreihe. Acta Math. Acad. Sci. Hungar. 6 (1955), 221–226. (Russian summary)

Let $p_n(x)$ be the orthonormal polynomials of degree $n$ with respect to the non-negative weight function $w(x) \neq 0$ in $(-1, 1)$. The following theorem is proved: Suppose that $w(x) \geqq m > 0$ in $\langle a, b \rangle$ where $-1 < a < b < 1$. Let $f$ [illegible] continuous derivatives in $\langle -1, 1 \rangle$ [illegible] modulus of continuity for $f^{(k)}$. If $\sum_{n=1}^{\infty} n^{k} \omega(1/n; f^{(k)}) < \infty$, then the $k$-times differentiated Fourier series of $f$ (with respect to the $p_n$) is absolutely convergent uniformly in every closed subinterval of $(a, b)$, and its sum is $f^{(k)}$. A second theorem of a similar kind is also proved.

*W. W. Rogosinski* (Newcastle-upon-Tyne)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G.

Differentiation of interpolated Lagrange sequences. In German. p. 467. Vol. 6, no. 3/4, 1955

SO. EAST EUROPEAN ACCESSIONS LIST Vol. 5, no. 7, July 1956

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FOLDED, G

HUNG.

537.311.62 1934

**Current Distribution in Cylindrical Conductors of Circular Cross-Section.**—[illegible] Freud. (*Acta tech. Acad. Sci. hungaricae*, 1955, Vol. [illegible], No. 3/4, pp. 397–406. In German.) A calculation is made of the current distribution and Joule heating for the conductor in a uniform alternating magnetic field.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G.

FREUD, G. - Kozlemenyei - Vol. 5, no. 1, 1955.

Convergence of the Hermite-Fejer interpolation method. p. 29.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, no. 9, Sept. 1955 Uncl.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G.

FREUD, G. - Kozlemenyei - Vol. 5, no. 1, 1955.

Absolute convergence of orthogonal polynomial series. p. 49.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, GÉZA

**Freud, Géza. Über einseitige Approximation durch Polynome. I.** Acta Sci. Math. Szeged 16, 12-28 (1955).

The following theorem on approximations is proved. Let $f(x)$ $-1 \leq x \leq 1$, be differentiable $(v-1)$-times and [illegible] the integral of a function [illegible]

[illegible]

$$[illegible] \quad F(x) = \rho(x)(1-x^2)^{-\frac{1}{2}} dx < A_v$$

Here $A_v$ depends only on $v$. This result is used in order to estimate the error (1) in certain mechanical-quadrature formulas (2) in a Tauberian formula [illegible] transforms [illegible]

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

SUBJECT USSR/MATHEMATICS/Theory of approximations CARD 1/2 PG - 55
AUTHOR FREUD G.
TITLE One-sided $L_1$-approximations and their application to theorems of Tauber's type.
PERIODICAL Doklady Akad. Nauk 102, 689-691 (1955)
reviewed 6/1956

The author proves the theorem: If $f(x)$ is $m-1$ times differentiable on $(a,b)$, then there exist polynomials of $n$-th degree $p_n(x)$ and $P_n(x)$ which satisfy the following conditions:

$$p_n(x) \leq f(x) \leq P_n(x) \qquad a \leq x \leq b$$

$$\int_a^b \left[P_n(x) - p_n(x)\right] \frac{dx}{\sqrt{(b-x)(x-a)}} = O\left(\frac{1}{n^{m+1}}\right).$$

For the proof the classical polynomials of Markov and Stieltjes and the Čebyšev's quadrature in terms of abscissas is used. From results of Bernstejn the author concludes without proof (with a hint to Karamat's proof of the Littlewood's theorem) the second theorem: Let $F(t)$ be not decreasing and defined on $(0,\infty)$ and let the Laplace-Stieltjes transformation

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

Doklady Akad. Nauk 102, 689-691 (1955) CARD 2/2 PG - 55

$$F(s) = A\,\frac{\Gamma(\alpha+1)}{s^{\alpha}}\left[1 + O\{R(s)\}\right]$$

converge for Re $s > 0$. Let be $\alpha \geq \frac{1}{2}$. If $s$ tends to zero (remaining real), then

$$F(s) = A\,\frac{\Gamma(\alpha+1)}{s^{\alpha}}\left[1 + O\{R(s)\}\right].$$

Here $R(s)$ is a monotonely decreasing function, $R(0) = 0$ and

$$R(k_s) < e^{c_3 k} R(s) \qquad k=2,3\ldots .$$

Then the function f being m-1 times differentiable on (0,1) satisfies the condition

$$\int_0^{\infty} f(e^{-\frac{t}{x}})\cdot e^{-\frac{t}{x}}\,dF(t) = Ax^{\alpha}\left[\int_0^1 (\log\tfrac{1}{y})^{\alpha-1} f(x)\,dx + O\left\{\left[\log\frac{1}{R(1/x)}\right]^{-m-1}\right\}\right] .$$

INSTITUTION: Inst.of applied Math. of the Acad. of Sciences of Hungary, Budapest.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

HUNGARY/Atomic and Molecular Physics - Heat D-6

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 5460

Author : Adler Gyorgy, Freud Geza
Inst : -
Title : On the Principle of Maximum for the Differential Equation of Heat Conduction. I.

Orig Pub : Magyar tud. akad. Mat. kutato int. kozl., 1956, 1, No 1-2, 157-165

Abstract : The authors consider a case in which part of the boundary of the body that conducts the heat, is thermally insulated. It is proven that the maximum (or minimum) of the temperature cannot be reached on the insulated portion of the boundary, with the exception, perhaps, of the initial instant of time.

Card : 1/1

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

Freud, G.

**Freud, G.; und Králik, D.** Über die Anwendbarkeit des Dirichletschen Prinzips für den Kreis [illegible] Acad. Sci. Hungar. 7 (1956), 41[illegible]–412 [illegible] (Russian summary)

This paper contains a discussion of the relation to each other of certain previously known conditions for the applicability of Dirichlet's principle to the solution of the Dirichlet problem for the circle. Some refinements of these conditions are also given. Among the previous conditions involved is that due to R. Courant, in terms of the Fourier coefficients of the boundary value function [Dirichlet's principle, conformal mapping and minimal surfaces, Interscience, New York, 1950; MR 12, 90]. Other results cited include those due to S. M. Nikol'skiĭ [Mat. Sb. N.S. 35(77) (1954), 247–266; MR 16, 589], and L. N. Slobodeckiĭ and V. M. Babič [Dokl. Akad. Nauk SSSR (N.S.) 106 (1956), 604–606; MR 17, 959].

*F. W. Perkins* (Hanover, N.H.)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G.

Displacement current generating in a circular cross-section conductor. P. 7 KOZLEMENYEI Budapest, Vol. 18, no. 1/4, 1956

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

5341: 2-F\W

**Freud, Géza. Eine Eigenschaft der Lösungen parabolischer Differentialgleichungen.** C. R. Acad. Bulgare Sci. 10 (1957), 451–452. (Russian summary)

Let $u(x, t)$ for $0<t\leqq T$, $0<x<l$ be a solution of the parabolic differential equation

$$\partial^2 u/\partial x^2+c(x, t)\partial u/\partial x=a(x, t)\partial u/\partial t,$$

where $a(x, t)$ is a positive function and $u(x, t)$ is continuous in the closed region $0\leqq t\leqq T$, $0\leqq x\leqq l$. The author establishes the following theorem:

Let $u(x, 0)$, $0\leqq x\leqq l$ and $u(t, l)$, $0\leqq t\leqq T$, be monotone non-decreasing and let $u(t, 0)$, $0\leqq t\leqq T$ be monotone non-increasing. Then $u(x, t)$, for arbitrary $t$, $0<t<T$, is a monotone non-decreasing function of $x$.

*From the author's summary*

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G.

Remark on the theorems of Cantor and Bendixson. In German. p. 333.

ACTA MATHEMATICA. (Magyar Tudomanyos Akademia) Budapest, Hungary. Vol. 9, no. 3/4, 1958.

Monthly list of East European Accessions, (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G.

Remark on the convergence of an interpolation process of P. Turan. In German. p. 337.

ACTA MATHEMATICA. (Magyar Tudomanyos Akademia) Budapest, Hungary. Vol. 9, no. 3/4, 1958.

Monthly list of East European Accessions, (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

ADLER, G.; FREUD, G.

Application of Mikusinski's calculations in the solution of an equation in partial derivation. Mat kut kozl MTA 4 no.3/4:367-375 '59.
(EEAI 9:9)

(Differential equations)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, Geza

Contribution to the positive Zygmund's series of approximation. Mat kut kozl MTA 6 no.1/2:71-75 '61.

(Series) (Approximate computation)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

S/044/62/000/010/003/042
B112/B102

AUTHOR: Freud, G., Sallay, M.

TITLE: Rate of convergence of expansion with respect to Sturm-Liouville eigenfunctions

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1962, 37, abstract 10B158 (Magyar tud. akad. Mat. kutató int. közl., v. 6, no. 3, 1961, 271 - 279 [French; summary in Rus.])

TEXT: Let $v_n(x)$ be the standard eigenfunctions of the differential equation $y'' + [\lambda - q(x)]y = 0$, which satisfy the conditions

$$\alpha_1 y(0) + \beta_1 y'(0) = 0, \qquad \alpha_2 y(\pi) + \beta_2 y'(\pi) = 0, \tag{1}$$

$$S_n(x,f) = \sum_{k=0}^{n} a_k v_k(x), \qquad a_k = \int_0^{\pi} f(x) v_k(x)\,dx.$$

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, Geza, a matematikai tudomanyok doktora

Gyorgy Alexits' Convergence Problems of Orthogonal Series; a book review. Mat kozl MTA 11 no.1:121-124 '61. (EEAI 10:6)
(Alexits, Gyorgy) (Convergence) (Series)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G.

On the (C,1)-sums expanded according to orthogonal polynomials. Acta mat Hung 14 no.1/2:197-208 '63.

1. Mathematisches Forschungsinstitut der Ungarischen Akademie der Wissenschaften, Budapest. Vorgelegt von Gyorgy Alexits.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD,G. (Budapest); KNAPOWSKI,S. (Poznan)

On linear processes of approximation, Pt.1. Studia math 23 no.2:105-112 '63.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, Geza

Approximation theorems of M.H. Stone. Mat lapok 15 no.1/3: 169-178 '64

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, Geza

Contribution to the equivalence in the solution of the Hamburger-Stieltjes moment problems. Mat kut kozl MTA 9 Series A no.1/2:117-123 '64.

1. Editorial Board Member, "A Magyar Tudomanyos Akademia Matematikai Kutato Intezetenek Kozlemenyei."

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, G. (Budapest); KNAPOWSKI, S. (Poznan)

On linear processes of approximation. Pt.2. Studia math 25 no.2:251-263 '65.

1. Submitted May 25, 1964.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREID, K.

PHASE I BOOK EXPLOITATION SOV/5975

International Institute of Welding

XII kongress Mezhdunarodnogo instituta svarki, 29 iyunya - 5 iyulya 1959 v g. Opatii (Twelfth Annual Assembly of the International Institute of Welding, Opatija, June 29 - July 5, 1959) Moscow, Mashgiz, 1961. 359 p. 3000 copies printed.

Sponsoring Agency: Natsional'nyy komitet SSSR po svarke.

Ed. (Title page): G. A. Maslov, Docent; Translated from English, French, and Serbo-Croatian by N. S. Aborenkova, K. N. Belyayev, E. P. Bogacheva, L. A. Borisova, K. V. Zvegintseva, V. S. Minavichev, and M. M. Shelechnik; Managing Ed. for Literature on the Hot-Working of Metals: S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for welding specialists and the technical personnel of various production and repair shops.

Card 1/

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0



Twelfth Annual Assembly (Cont.) SOV/5975

COVERAGE: The collection contains abridged reports presented and discussed at the Twelfth Annual Assembly of the International Institute of Welding. Reports deal with problems of welding and related processes used in repair work, repair techniques, and the problems arising in connection with the nature of the base and filler materials. Examples of repairing various parts are given, and the organization of repair operations in workshops and under field conditions is discussed. Economic aspects of welding and related processes as used in repair work are analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS: [Only Soviet and Soviet-bloc reports are given here]

Foreword 5

PART I. THE STUDY OF REPAIR-WORK TECHNIQUES (PROCESSES, METHODS, PREPARATION, HEATING, AND OTHER TYPES OF PROCESSING CONTROL)

Myuntsner, L. (Czechoslovakia). Welding of Broken Crankshafts 36



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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0



Khel'bich, R. (Czechoslovakia). Repairing High-Pressure Reactors and Regenerators by Welding 297

Mokanu, R., I. Antonesku, and K. Freud (Rumania). Examples of Welding Jobs Involved in the Repair Work at Rumanian Railroads 311

PART IV. ORGANIZATION OF REPAIR AND MAINTENANCE OF EQUIPMENT AND METAL STRUCTURES AT WORKSHOPS AND UNDER FIELD CONDITIONS AS CARRIED OUT IN VARIOUS BRANCHES OF INDUSTRY

[Part IV contains no Soviet or Soviet-bloc reports]

PART V. ECONOMIC ASPECTS OF USING WELDING AND RELATED PROCESSES IN REPAIR WORK

[Part V contains no Soviet or Soviet-bloc reports]



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S/264/62/000/009/001/006
I007/I207

AUTHOR: Freudenthal, A.M.

TITLE: Reliability analysis of fatigue-sensitive structures

PERIODICAL: Referativnyy zhurnal, vozdushnyy transport, svodnyy tom, no.9, 1962, 7-8, abstract 9A37 (Acta techn. Acad. scient. hung.), 1961, 35-36; 55-81 [English]

TEXT: The problem studied is the operational reliability of aircraft structures from the point of view of static and fatigue strength. Until recently, these two conditions were considered separately which however is unpractical since, when aloft, aircraft structures are subject to static failure as a result of cyclic stresses and loads affecting their static strength. Typical stress patterns are plotted under normal

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Reliability analysis...

operation conditions; these patterns are used for checking the fatigue strenth. On the other hand, the stress pattern under unfavorable operation conditions are used for selecting the rated statical loads. The following factors affecting the endurance limit of structures, are considered: stress pattern; characteristics of fatigue strength of the materials involved; peculiarities of materials, structural elements and joints; the influence of residual stresses, of fretting and corrosion; temperature and environmental factors etc. The following ratio is assumed as the basic strength characteristics $r_F(N)/r_u(N)$ where $r_F(N)$ = probability of fatigue failure of structures under the action of N load cycles; $r_u(N)$ = probability of static failure under same conditions: Assuming $N = N^+$, where $N^+$ = number of repeated load

Card 2/5

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Reliability analysis ....

cycles, corresponding to the rated fatigue strength (endurance limit) of the structures, it follows that $f(N^+) = f^+$. In dependence on the value of $f^+$, aircraft structures may be divided into four groups: a). fatigue-insensitive with $0 < f^+ \leq 0.1$ ——; b). moderately fatigue-sensitive with $0.1 < f^+ \leq 1.0$ ——; c). very fatigue-sensitive with $1.0 \leq f^+ 10$ ——; d). extremely fatigue-sensitive with $10 < f^+$. Structures of the first group should preferably be tested for static strength only. Structures of the second group should be designed for fatigue strength. Field tests of such structures should be carried out for static loads, while their component elements and joints should also be tested for cyclic (repeated) loads with an amplitude equal to the value of maximum static operational load (in order to reduce test duration). Structures of the third group should be designed and tested for cyclic loads; at

Card 3 /5

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Reliability analysis....

least one full-scale structure (of this group) should be subject to typical cyclic loads test; fatigue-resistance tests of structural elements and joints should furnish data permitting the minimum service-life of such structures to be calculated. Structures of the fourth group, if there is no possibility that may be dispensed with, should be designed and tested for cyclic loads only; a sufficient number of full-scale structures of this group should be tested to obtain reliable values of the average endurance limit and characteristics of stray test results. Methods are described for determining $f^+$, and a relationship is established between the value of $f^+$ and the safety factor with respect to the reliable fatigue strength, the maximum operational load, and the amplitude of cyclic loads at which tests are carried out. A graph is plotted for determining the root mean-square deviation of the logarithm of

Case 4/5

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I007/I207

Reliability analysis....

average value of dangerous-cycle number; this graph is plotted from the results of fatigue tests with constant amplitude of load stresses, the result of programmed fatigue tests and of tests with random alternating stresses. The method suggested may be used for the qualitative evaluation of operational reliability of various aircraft structures, rather than for any quantitative calculations.

[Abstracter's note: Complete translation.]

Card 5/5

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FRIED, M.; VANCS, E.

FRIED, M.; VANCS, E. Microviscometer. p. 11.

Vol. 11, No. 1, Jan. 1956.
MAGYAR KEMIKUSOK LAPJA.
TECHNOLOGY
Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

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L 59573-65 EWT(1)/EWP(w)/EWA(d)/T/EWP(t)/EWP(b) IJP(c) JD/GG

ACCESSION NR: AT5009438 CZ/0010/64/000/000/0066/0070

AUTHOR: Makiej, B.; Freud, R.; Sulkowski, C.

TITLE: Change in magnetic induction distribution with temperature in a cylindrical specimen at destruction of superconductivity by current

SOURCE: Conference on Low Temperature Physics and Techniques. 3d, Prague, 1963. Physics and techniques of low temperatures; proceedings of the conference. Prague, Publ. House of the Czechosl. Academy of Sciences, 1964, 66-70

TOPIC TAGS: superconductivity, magnetic induction distribution, superconductivity destruction, low temperature research, superconducting transition

ABSTRACT: This is a sequel of an investigation by one of the authors (Makiej, ZhETF v. 34 (1958) 312) and is aimed at a closer examination of the inconsistency between the earlier experimental data and the London theory of destruction of superconductivity by a current. To this end, the distribution of magnetic induction was determined in a specimen at fixed current of 25.8 A and at several specimen temperatures. The experimental set-up was the same as described in the earlier paper. The specimen was a polycrystalline tin cylinder 4 mm in diameter, of resistivity ratio $R_{4.2}/R_{293} = 1.56 \times 10^{-4}$ with a 0.2 x 3.5 mm rectangular slot cut in the central part of the cylinder, symmetrical about the diametral plane. The magnetic

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field in the slot was measured with a magnetoresistance bismuth probe. Comparison of the measurements with the calculations based on London's theory shows that an increase in temperature is accompanied by a decrease in the radius of the "core" of the intermediate state, and the experimental points in the "sheath-core" border region do not lie on the theoretical curve. This discrepancy cannot result from the difference between the temperature of the sample and that of the surrounding helium bath. It is therefore concluded that there is no sharp border between the regions of the intermediate and normal state, and any phenomenological theory ignoring the actual structure of the intermediate state does not describe well the mechanism of destruction of superconductivity by current. "The authors thank Doctor E. Rojnar and Doctor J. Szymaszek for helpful discussions, Doctor W. Giriat for supplying the zonally purified tin, and to Mr. J. Kasprzak and Mr. M. Wasilewski for technical assistance." Orig. art. has: 6 figures and 2 formulas.

ASSOCIATION: Department of Low Temperatures, Institute of Physics, Polish Academy of Sciences, Wroclaw, Poland

SUBMITTED: 0000064 ENCL: 00 SUB CODE: EM, TD

NR REF SOV: 003 OTHER: 001

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, I.L. (Chekhoslovakiya)

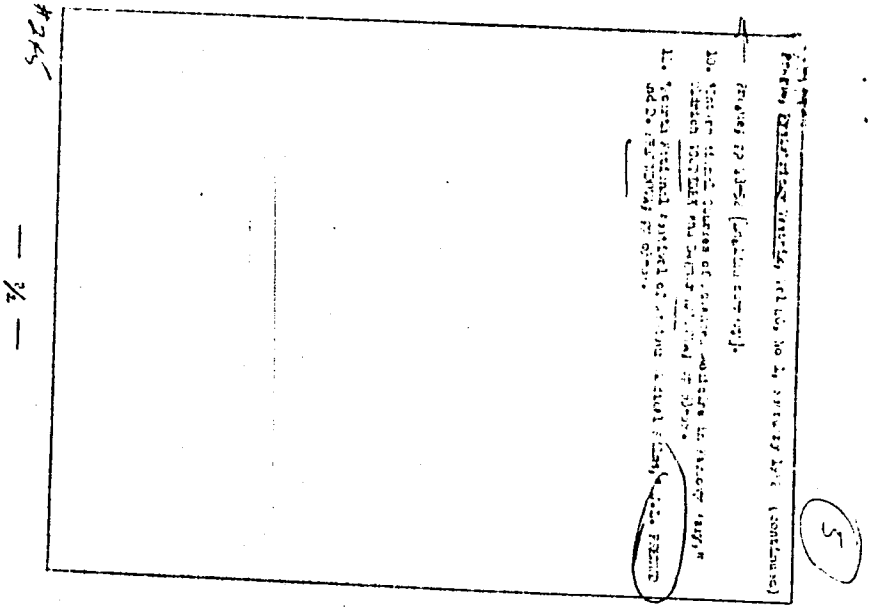
Cages made by various materials for laboratory mice. Lab. delo 6 no.5:55-57 S-O '60. (MIRA 13:9)

(LABORATORY ANIMALS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, J.L.



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, J.L.; HOUSKA, F.

Report on the Second Czechoslovak Work Conference on Experimental Animals. Term tud kozl 5 no.2:91-92 F '61.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUD, I.L.; FREUNDOVA, D. (Praga)

"Rat and mouse - experimental animals for research" by E.Hagemann and G.Schmidt. Reviewed by I.L.Freund and D.Freundova. Lab. delo 7 no.12:51 D '61. (MIRA 14:11)
(LABORATORY ANIMALS) (HAGEMANN, E.) (SCHMIDT, G.)

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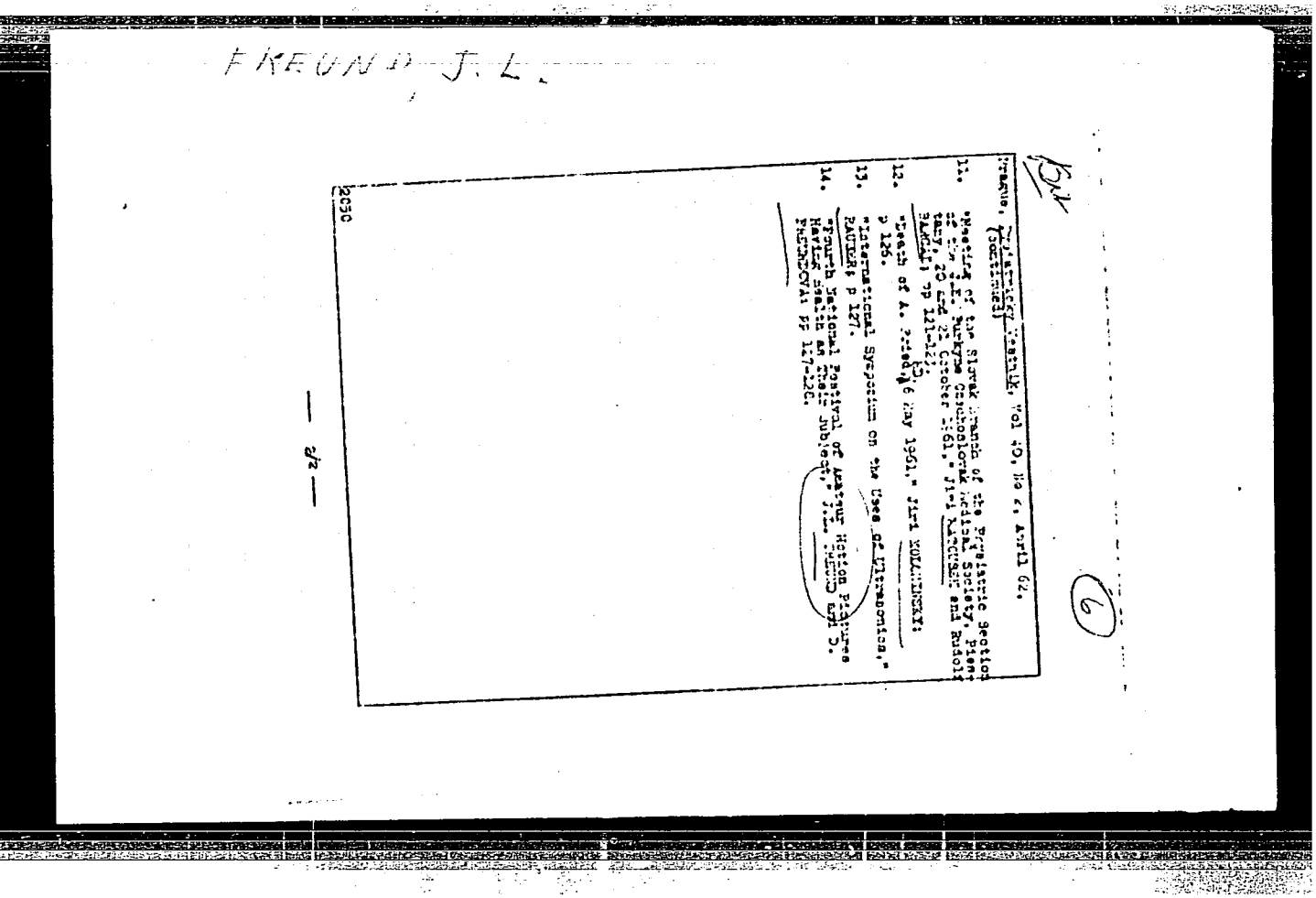

FREUND, J. L.

(6)

Prague, Pediatricky Vestnik, Vol 40, No 2, April 62.
(continued)

11. "Meeting of the Slovak Branch of the Pediatric Section of the J.E. Purkyne Czechoslovak Medical Society, Piestany, 20 and 21 October 1961," Jiri KATOUSEK and Rudolf BARGAL; pp 121-123.

12. "Death of A. Fried, RD, 16 May 1961," Jiri KOLAMINSKY; p 126.

13. "International Symposium on the Uses of Ultrasonics," RAUBER; p 127.

14. "Fourth National Festival of Amateur Motion Pictures Having Health as Their Subject," J.L. FREUND and D. FREUNDOVA; pp 127-128.

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.; SRNEC, J.

Experience with male homosexuality; analysis of changes in sexual appetence in experimental. Sborn. lek. 55 no.5-6 125-182 May 1953.
(CIML 25:1)

1. Experimental therapy with conditioned reflexes.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

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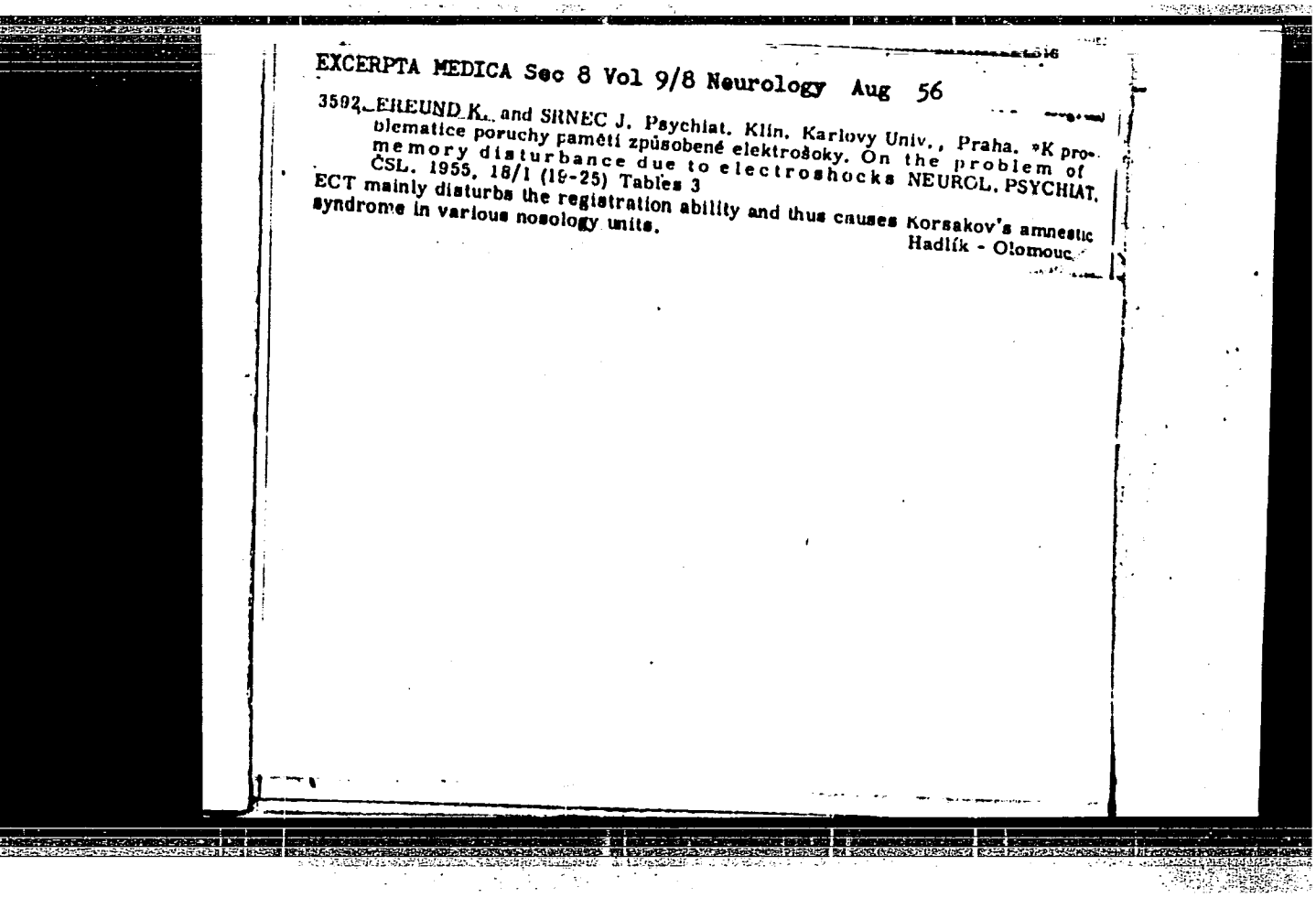

EXCERPTA MEDICA Sec 8 Vol 9/8 Neurology Aug 56

3592. FREUND K., and SRNEC J. Psychiat. Klin. Karlovy Univ., Praha. *K problematice poruchy paměti způsobené elektrošoky. On the problem of memory disturbance due to electroshocks NEUROL. PSYCHIAT. ČSL. 1955, 18/1 (19-25) Tables 3

ECT mainly disturbs the registration ability and thus causes Korsakov's amnestic syndrome in various nosology units.

Hadlík - Olomouc

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0



3975. FREUND K. and SRNEC J. Psychiat. Klin., Karls-Univ., Prag. *Zum Problem der allgemeinen Merkschwäche, ein Modellversuch. The problem of general weakness of memory; a model MSCHR. PSYCHIAT. NEUROL. 1956, 131/4 (226-247) Tables 6 Illus. 5

The question of the relationship of weakness of memory with 'passivity', 'inhibition' and 'apathy' in any given patient, can be answered so far as such a relationship does exist, and that weakness of memory does depend, at least in part, on lack of spontaneity in reproduction, which is shown by the patient with psychomotor inhibition. The relationship is, however, of too lowly an order for a general weakness of memory to be ascribed wholly or principally to the 'passivity' or the 'apathy' of the subject.

Authors' summary

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, Kurt

Diagnosis of male homosexuality. Cesk. psychiat. 53 no.6:382-394 Dec 57.

1. Psychiatricka klinika KU v Praze.
(HOMOSEXUALITY, diag.
in males (Cz))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.; DIAMANT, J.; PINKAVA, V.

On the validity & reliability of the phalloplethysmographic (Php) diagnosis of some sexual deviations. Rev. Czech. M. 4 no.2:145-151 1958.

1. Clinic of Psychiatry Charles' University, Prague. Acting Director: Prof. V. Vondracek.

(SEXUAL DEVIATIONS, diag.
penile plethysmography, diag. value)
(PLETHYSMOGRAPHY, in various dis.
penile in sexual deviations, diag. value)
(PENIS, blood supply,
plethysmography in diag. of sexual deviations)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

EXCERPTA MEDICA Sec 8 Vol 12/11 Neurology Nov 59

5890. THE PROBLEM OF THE TREATMENT OF HOMOSEXUALITY - Sobre el problema del tratamiento de la homosexualidad - Freund K. Clin. Psiquiát., Karls-Univ., Prague - ACTA NEUROPSIQUIAT. ARGENT. 1958, 4/3 (233-247) Tables 4

Between the cases of heterosexual adaptation which were observed after a non-exploratory, predominantly non-verbal psycho-therapeutic procedure, and those adaptations which have been reported by psychotherapists, there are no significant qualitative or quantitative differences. It is likely that all measures regarded as efficacious in cases of homosexuality are based on the same principle: a system of abstention from the homosexual habits in an atmosphere favouring heterosexual behaviour. The most that can be attained with psychotherapy is a change in the patient's social habits; his erotic orientation can be influenced only very slightly or not at all.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.

Three comments on the work of a psychopathologist. Cesk. psychiat. 54 no.3:177-183 June 58.

1. Vyzkumna laborator psychiatricke katedry KU v Praze.
(PSYCHOPATHOLOGY,
(Cz))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

EXCERPTA MEDICA Sec 8 Vol 12/7 Neurology July 59

3372. REVIEWS ON THE VALIDITY AND RELIABILITY OF THE PHALLOPLETHYSMOGRAPHIC (PHP) DIAGNOSIS OF SOME SEXUAL DEVIATIONS - Freund K., Diamant J. and Pinkava V. Clin. of Psychiat., Charles' Univ., Prague - REV. CZECH. MED. 1958, 4/2 (145-151) Tables 4

The authors planned to test the validity and reliability of an objective method of diagnosing sexual deviations, by comparing the case histories with the Php tracings of the subjects, on exhibiting them the coloured, life-size, static, male and female nude figures of age ranging from 4 to 30, for 13 sec. each with a gap of 19 sec. in between.

Raychaudhuri - Calcutta

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

EXCERPTA MEDICA Sec 8 Vol 12/9 Neurology Sept 59

4774. SEDUCTION AS A CAUSE OF HOMOSEXUALITY - Zur Frage der Verführung zur Homosexualität - Freund K. and Pinkaka V. Forsch.-Abt., Ambulanz für Sex. Deviationen, Psychiat. Klin., Karls-Univ., Prag - NERVENARZT. 1958, 29/8 (364-366) Graphs 2 Tables 4

The widely spread opinion that homosexuality is usually the result of seduction in youth was tested in 222 cases from the Prague Psychiatric Clinic. Those cases in which homo-erotic contact had been made with a man at least 5 yr. older were regarded as being based on seduction. These conditions were present in only 13 cases, which shows that seduction of children or juvenile persons is not a very

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

NEDOMA, Karel; FREUND, Kurt

The problem of responsibility and corrective measures in sexual delinquents. Cesk. psychiat. 55 no.4:264-269 June 59.

1. Sexuologicky ustav KU v Psychiatricka klinika KUv Praze.
(SEX DEVIATION)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, Kurt; PINKAVA, Vaclav

On the relationship between homosexuality and parental absences.
Cesk. psychiat. 55 no.5:334-336 O '59.

1. Psychiatricka klinika KU v Praze.
(HOMOSEXUALITY)
(PARENT CHILD RELATIONS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, Kurt; PINKAVA, Vaclav

On the problem of age preference of male homosexuals. Cesk.psychiat. 55 no.6:362-367 D '59.

1. Psychiatricka klinika Karlovy university v Praze.
(HOMOSEXUALITY)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, Kurt; PINKAVA, Vaclav

On the problem of "femininity" in male homosexuals. Cesk.psychiat. 56 no.6:386-394 D '60.

1. Psychiatricka klinika KU v Praze.
(HOMOSEXUALISM)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.

Laboratory differential diagnosis of homo- and heterosexuality - an experiment with faking. Rev.Czech.M. 7 no.1:20-31 ' 61.

1. Psychiatric Hospital Charles University, Prague. Director: Prof. V.Vondracek, M.D.
(HOMOSEXUALITY diag)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.; PINKAVA, V.

Homosexuality in man and its association with parental relationships. Rev.Czech.M. 7 no.1:32-40 '61.

1. Psychiatric Hospital of Charles University, Prague. Director: Prof. MUDr. V. Vondracek.
(HOMOSEXUALITY psychol)
(PARENT CHILD RELATIONS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

NEDOMA, Karel; FREUND, Kurt

Somatosexual findings in homosexual males. Cesk. psychiat. 57 no.2:100-103 '61.

1. Sexualogicky ustav a psychiatricka klinika KU v Praze.
(SOMATOTYPES) (HOMOSEXUALITY)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, Kurt

Femininity in the homosexual male and his parental relations.
Cesk. psychiat. 57 no.3:170-174 '61.

1. Psychiatricka klinika KU v Praze.
(HOMOSEXUALITY psychol.) (PARENT-CHILD RELATIONS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.; NEDOMA, K.; PINKAVA, V.

2 types of picture of homosexuality in men. Cesk. psychiat. 57 no.4: 230-232 [redacted] '61.

1. Psychiatricka klinika a Sexuologicky ustav KU v Praze.
(HOMOSEXUALITY)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K. CZECHOSLOVAKIA

Docent MD

Not Given

Prague, Prakticky Lekar, No. 18, 1962, p 813

"Fiftieth Anniversary of Docent MUDr Jiri Roubicek"

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

CZECHOSLOVAKIA

J. MADLAFOUSEK and K. FREUND, Psychiatry Research Institute (Vyzkumny ustav psychiatricky), Prague.

"Realistic Animal Models."

Prague, Ceskoslovenska Psychiatrie, Vol 58, No 6, 1962; pp 369-371.

Abstract: Animal research has changed vastly since the end of the early post-war period, with much development in humoral, biochemical, social and stereotactic studies and experiments. These and future trends are discussed abstractly. No references.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

CZECHOSLOVAKIA

K. FREUND, Psychiatry Research Institute (Vyzkumny ustav psychiatricky) Prague.

"Concluding Remarks."

Prague, Ceskoslovenska Psychiatrie, Vol 58, No 6, 1962; pp 375-376.

Abstract: Discussion of the preceding three articles, all on various aspects of research in psychiatry. Extensive and Intensive research in psychiatry each have their own set of rigid rules; experimental animal models must be predicated on conformity to known facts; new orientations in psychiatric research are, however, also needed.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.

Final considerations. Cesk. psychiat. 58 no.6:375-376 D '62.

1. Vyzkumny ustav psychiatricky v Praze.
(PSYCHIATRY)

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CZECHOSLOVAKIA

FREUD, K., Psychiatry Research Institute (Vyzkumny ustav psychiatricky), Prague 8 - Bohnice.

"The Concept of Psychopathy"

Prague, Ceskoslovenska Psychiatrie, Vol LIX, No 4, August 63, pp 246-247.

Abstract: Using various references the author makes an attempt to define psychopathy. He argues a difference should be made between neurotic disturbances during development and psychopathies. Ten references, including 2 Russians.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.

On the concept of psychopathy. Cesk. psychiat. 59 no.4:246-247 Ag '63.

1. Vyzkumny ustav psychiatricky v Praze 8 - Bohnicich.
(PSYCHOPATHOLOGY) (NOMENCLATURE)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.

On the problem of male homosexuality. Rev. czech. med. 11 no.4:
11-17 '65

1. Psychiatric Research Institute, Prague.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, K.

A simple device for measuring volume changes of the male genital organ. Cesk. psychiat. 61 no.3:164-166 Je '65.

1. Vyzkumny ustav psychiatricky v Praze.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

L 10726-66

ACC NR: AP6004563 SOURCE CODE: CZ/0083/65/000/003/0164/0168

AUTHOR: Freund, K.--Freynd, K. (Prague)

ORG: Psychiatric Research Institute, Prague (Vyzkumny ustav psychiatricky)

TITLE: Simple device for measuring volume changes of the penis

SOURCE: Ceskoslovenska psychiatrie, no. 3, 1965, 164-168

TOPIC TAGS: human physiology, medical laboratory instrument

ABSTRACT: A device allowing accurate measurements of volume changes of the male genital organ was designed by the author and used in erotic preference tests. Pictures are projected at 7 second intervals, and volume changes of the penis are automatically recorded. The range of the device is 0.035 to 8 cubic centimeters. Complete details of the construction of the apparatus are given. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 007

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[illegible], [illegible].

"A Bibliography Of The Anoplura or Suckling Lice." p. 1. (Sborník. Acta Entomologica. Vol. 26, No. 367, 1948-50, Praha.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3. Library of Congress, March [illegible], Uncl.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

FREUND, Ladislav, sanitetski potpukovnik, dr.; MADIRACA, Ante, sanitetski potpukovnik, dr.

Attempted therapy of dyspnea and asphyxia following acute edema of the larynx. Vojnosanit. pregl. 19 no.4:293-297 Ap '62.

1. Medicinski centar ratne mornarice u Splitu, Odjel za bolesti uha, nosa i grla.
(DYSPNEA) (ASPHYXIA) (LARYNGEAL EDEMA)

S

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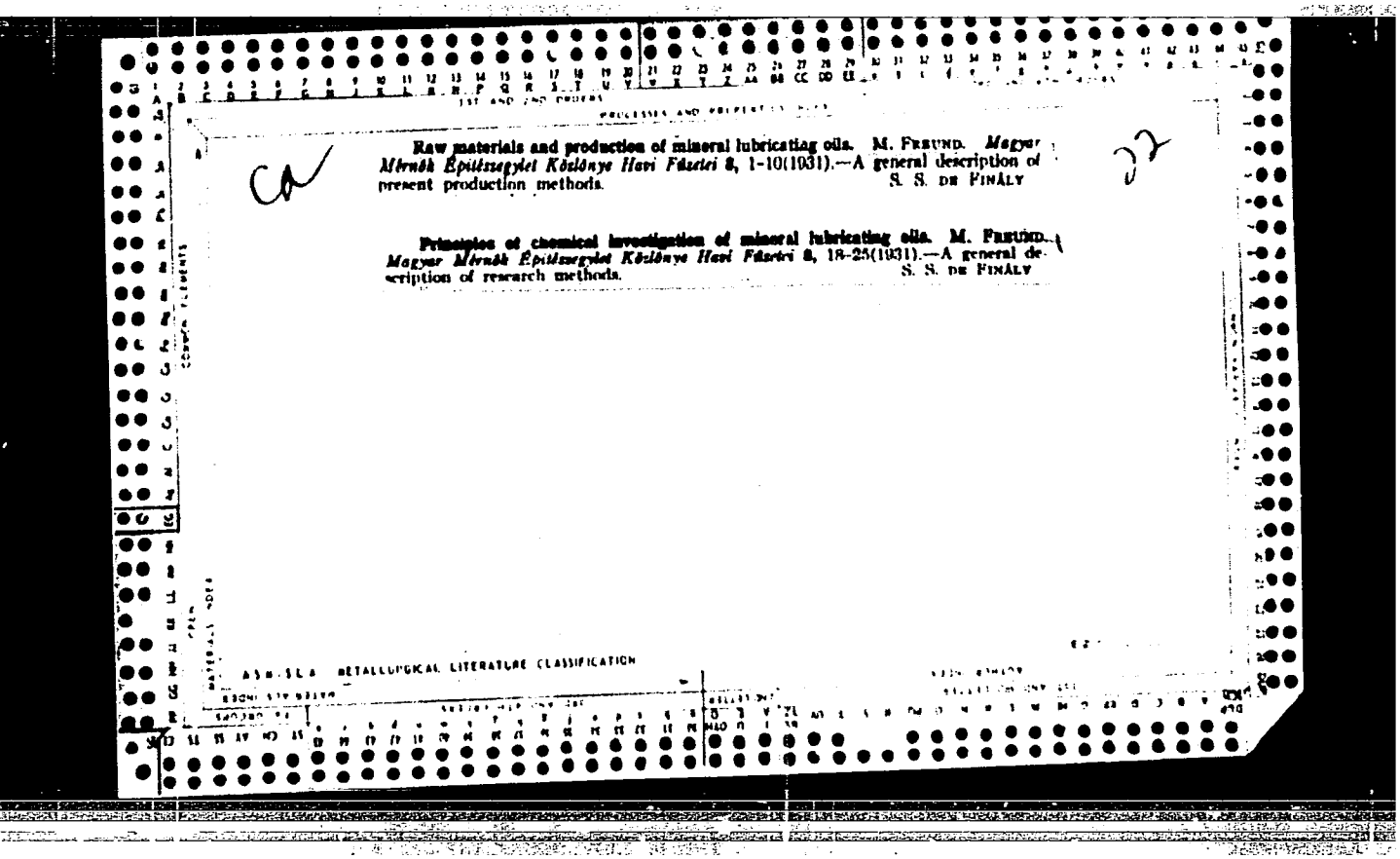

**Raw materials and production of mineral lubricating oils.** M. FREUND. *Magyar Mérnök Építészegylet Közlönye Havi Füzetei* **8**, 1-10(1931).—A general description of present production methods. S. S. DE FINÁLY

**Principles of chemical investigation of mineral lubricating oils.** M. FREUND. *Magyar Mérnök Építészegylet Közlönye Havi Füzetei* **8**, 18-25(1931).—A general description of research methods. S. S. DE FINÁLY

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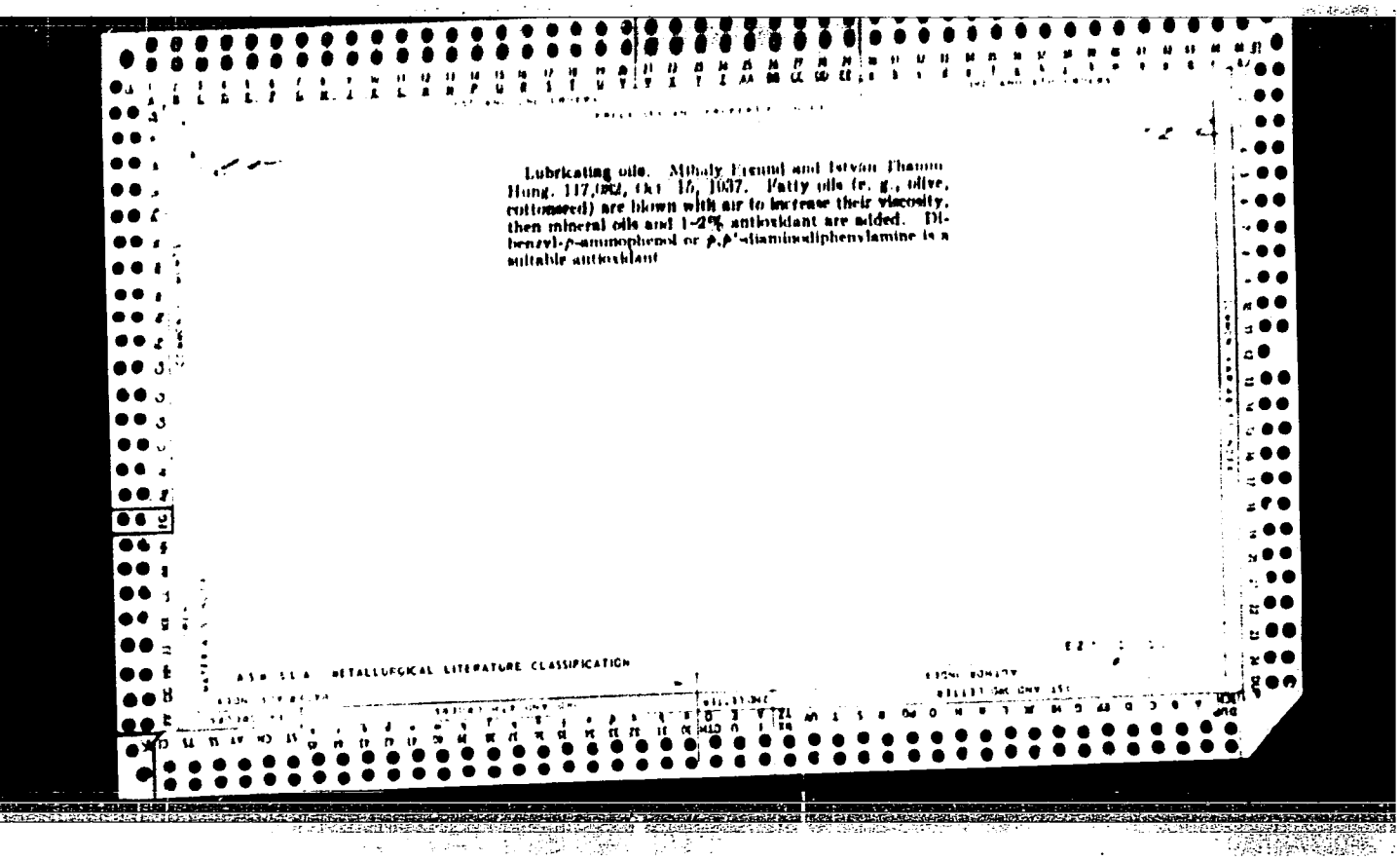

Lubricating oils. Mihaly Ferenci and Istvan Thamm Hung. 117,082, Oct 15, 1937. Fatty oils (e. g., olive, cottonseed) are blown with air to increase their viscosity, then mineral oils and 1-2% antioxidant are added. Dibenzyl-*p*-aminophenol or *p,p'*-diaminodiphenylamine is a suitable antioxidant

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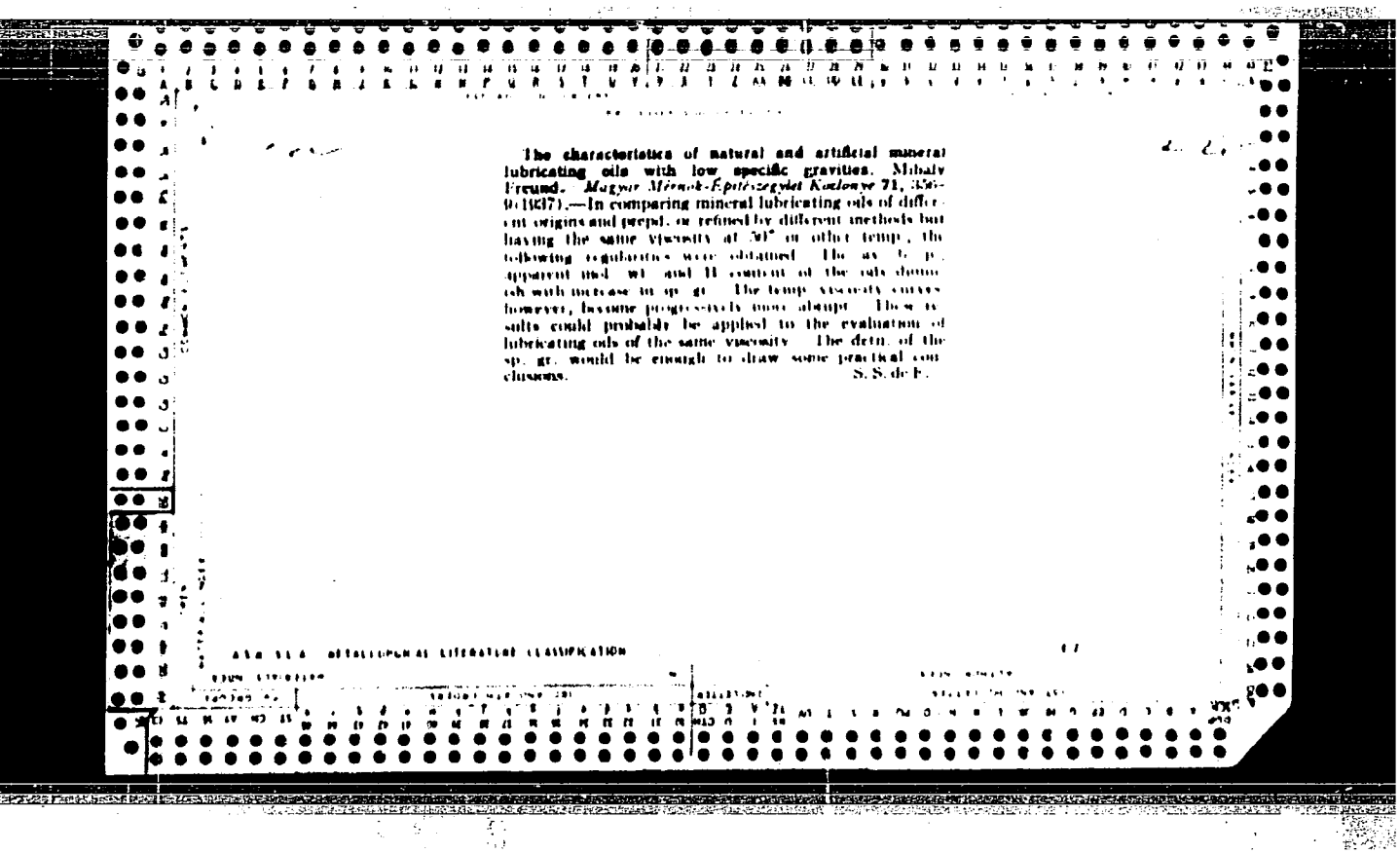

**The characteristics of natural and artificial mineral lubricating oils with low specific gravities.** Mihaly Freund. *Magyar Mérnök-Építészegylet Közlönye* 71, [illegible] (1917).—In comparing mineral lubricating oils of different origins and prepn. or refined by different methods but having the same viscosity at 50° or other temp., the following regularities were obtained. The av. b. p., apparent mol. wt. and H content of the oils change with increase in sp. gr. The temp.-viscosity curves however, become progressively more abrupt. These results could probably be applied to the evaluation of lubricating oils of the same viscosity. The detn. of the sp. gr. would be enough to draw some practical conclusions.

S. S. de F.

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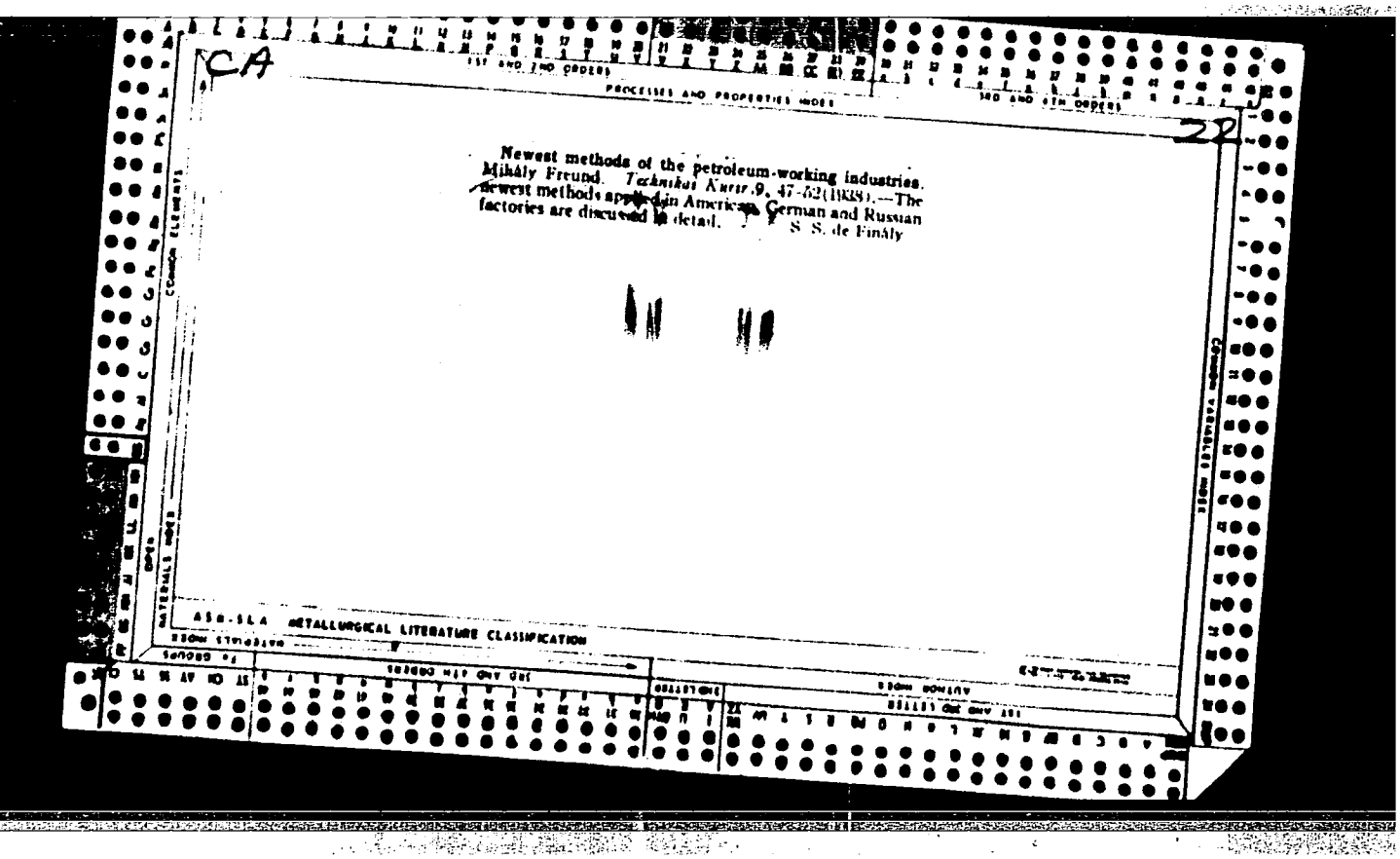


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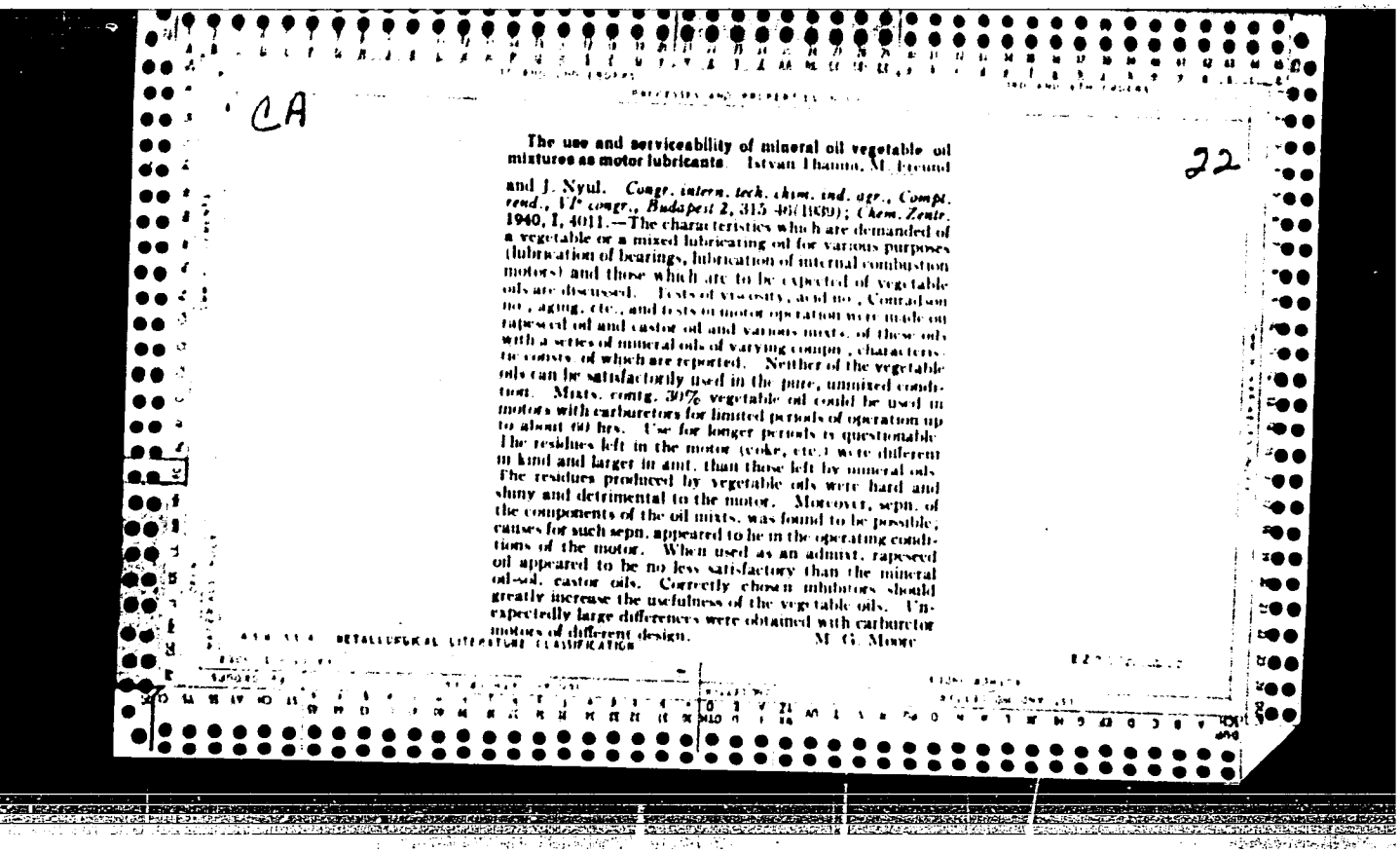

CA

22

**The use and serviceability of mineral oil vegetable oil mixtures as motor lubricants.** Istvan Thamm, M. Freund and J. Nyul. *Congr. intern. tech. chim. ind. agr., Compt. rend., VI^e congr., Budapest 2*, 315-40(1939); *Chem. Zentr.* 1940, I, 4011.—The characteristics which are demanded of a vegetable or a mixed lubricating oil for various purposes (lubrication of bearings, lubrication of internal combustion motors) and those which are to be expected of vegetable oils are discussed. Tests of viscosity, acid no., Conradson no., aging, etc., and tests on motor operation were made on rapeseed oil and castor oil and various mixts. of these oils with a series of mineral oils of varying compn., characteristic constn. of which are reported. Neither of the vegetable oils can be satisfactorily used in the pure, unmixed condition. Mixts. contg. 30% vegetable oil could be used in motors with carburetors for limited periods of operation up to about 60 hrs. Use for longer periods is questionable. The residues left in the motor (coke, etc.) were different in kind and larger in amt. than those left by mineral oils. The residues produced by vegetable oils were hard and shiny and detrimental to the motor. Moreover, sepn. of the components of the oil mixts. was found to be possible, causes for such sepn. appeared to be in the operating conditions of the motor. When used as an admixt., rapeseed oil appeared to be no less satisfactory than the mineral oil-sol. castor oils. Correctly chosen inhibitors should greatly increase the usefulness of the vegetable oils. Unexpectedly large differences were obtained with carburetor motors of different design. M. G. Moore

METALLURGICAL LITERATURE CLASSIFICATION

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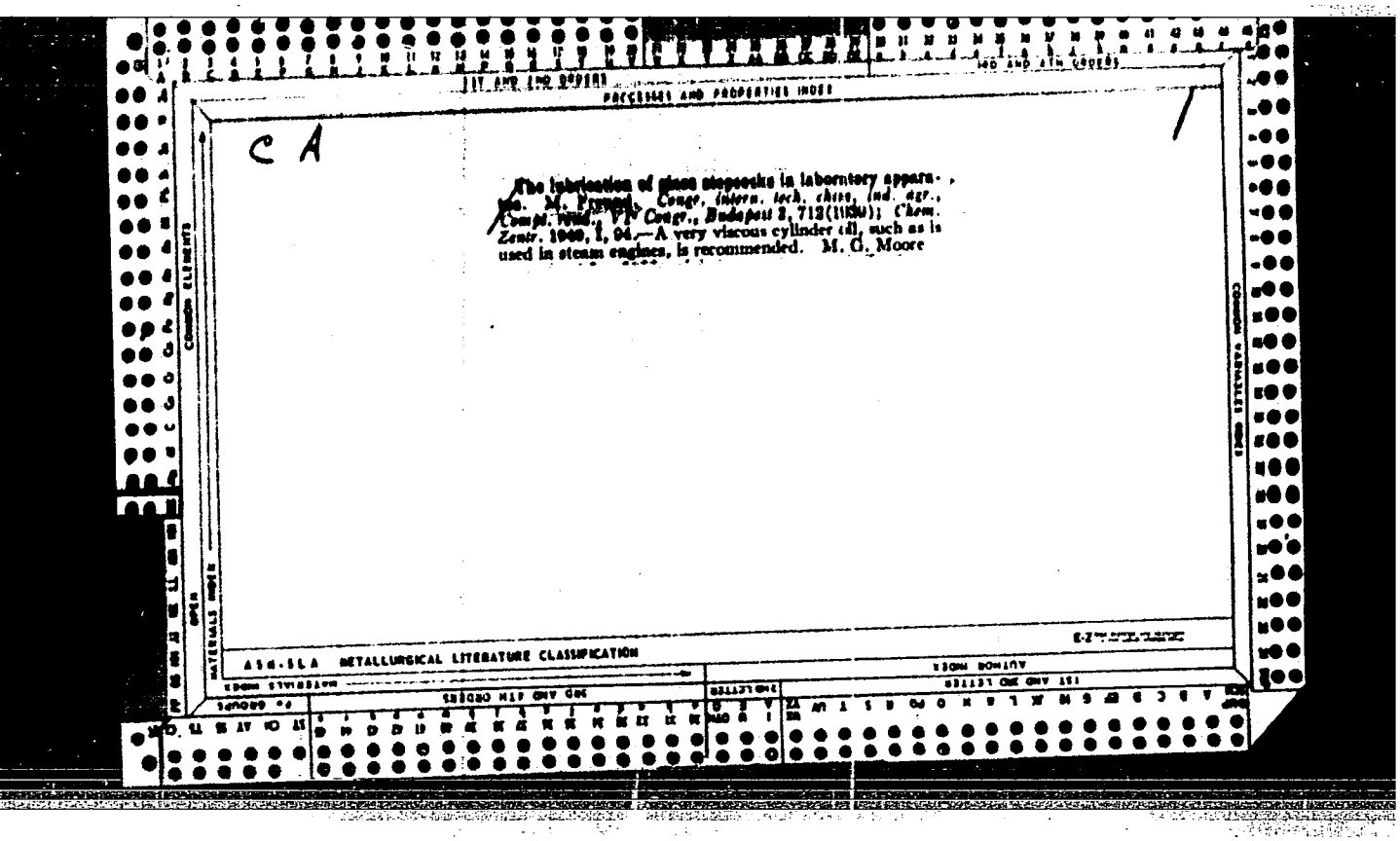


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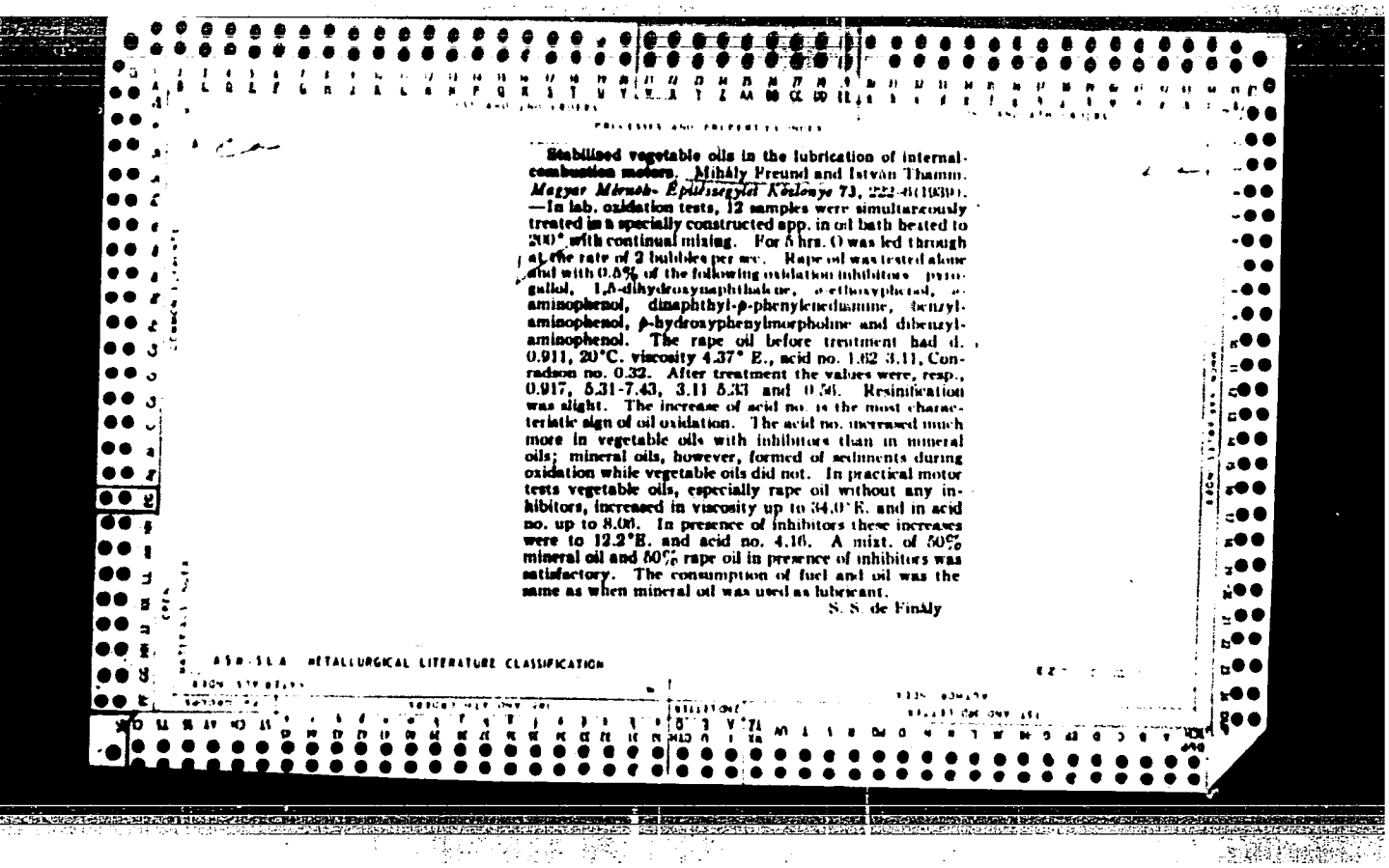
PROCESSES AND PROPERTIES INDEX



**Stabilized vegetable oils in the lubrication of internal-combustion motors.** Mihály Freund and István Thamm. *Magyar Mérnök- Építészegylet Közlönye* 73, 222-6(1939). —In lab. oxidation tests, 12 samples were simultaneously treated in a specially constructed app. in oil bath heated to 200° with continual mixing. For 5 hrs. O was led through at the rate of 2 bubbles per sec. Rape oil was tested alone and with 0.5% of the following oxidation inhibitors: pyrogallol, 1,5-dihydroxynaphthalene, α-ethoxyphenol, α-aminophenol, dinaphthyl-p-phenylenediamine, benzylaminophenol, p-hydroxyphenylmorpholine and dibenzylaminophenol. The rape oil before treatment had d. 0.911, 20°C. viscosity 4.37° E., acid no. 1.62-3.11, Conradson no. 0.32. After treatment the values were, resp., 0.917, 5.31-7.43, 3.11-5.33 and 0.56. Resinification was slight. The increase of acid no. is the most characteristic sign of oil oxidation. The acid no. increased much more in vegetable oils with inhibitors than in mineral oils; mineral oils, however, formed of sediments during oxidation while vegetable oils did not. In practical motor tests vegetable oils, especially rape oil without any inhibitors, increased in viscosity up to 34.0°E. and in acid no. up to 8.06. In presence of inhibitors these increases were to 12.2°E. and acid no. 4.16. A mixt. of 50% mineral oil and 50% rape oil in presence of inhibitors was satisfactory. The consumption of fuel and oil was the same as when mineral oil was used as lubricant.

S. S. de Finály

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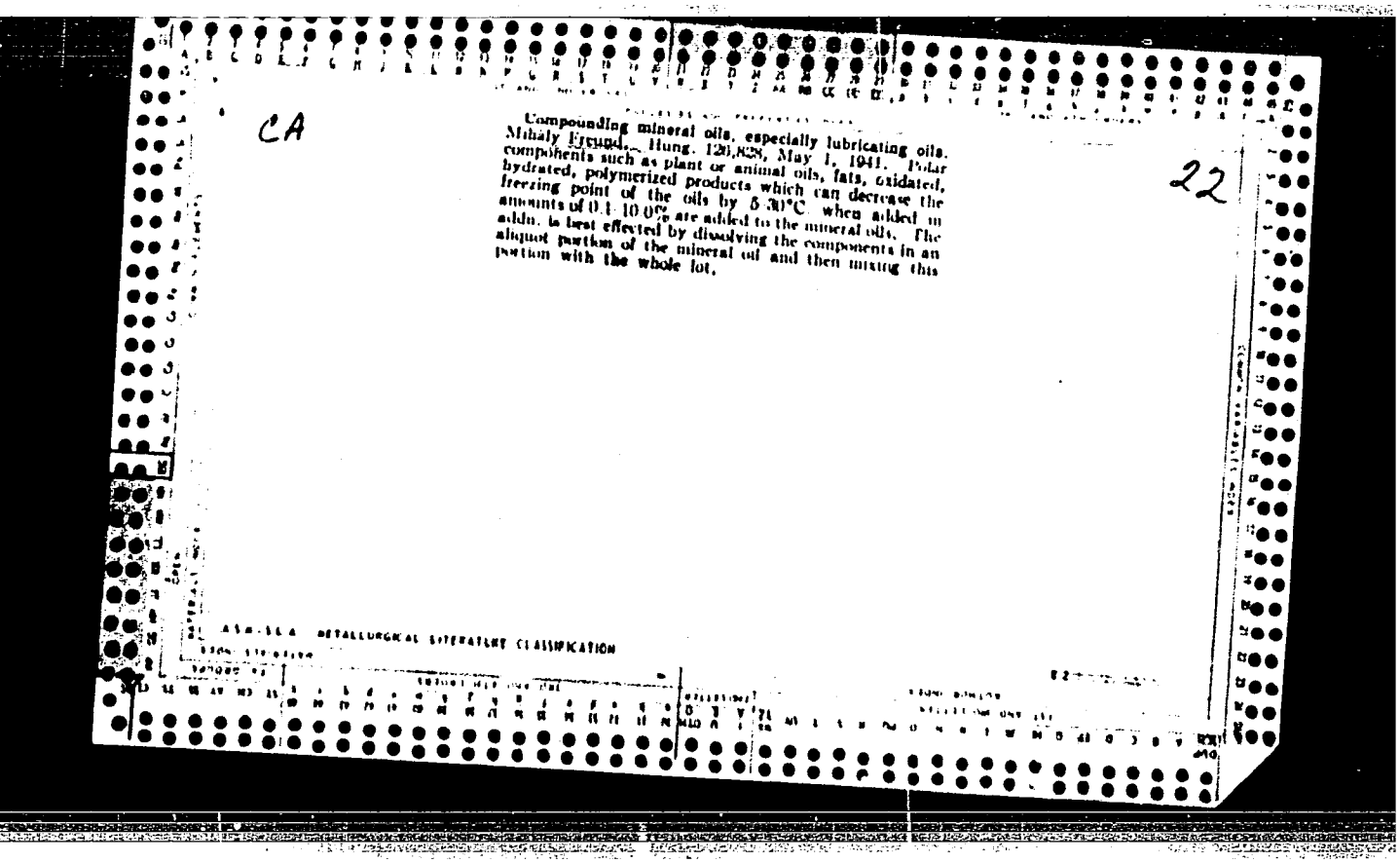

CA

22

Compounding mineral oils, especially lubricating oils. Mihaly Ferenczi. Hung. 120,828, May 1, 1941. Polar components such as plant or animal oils, fats, oxidated, hydrated, polymerized products which can decrease the freezing point of the oils by 5-30°C when added in amounts of 0.1-10.0% are added to the mineral oils. The addn. is best effected by dissolving the components in an aliquot portion of the mineral oil and then mixing this portion with the whole lot.

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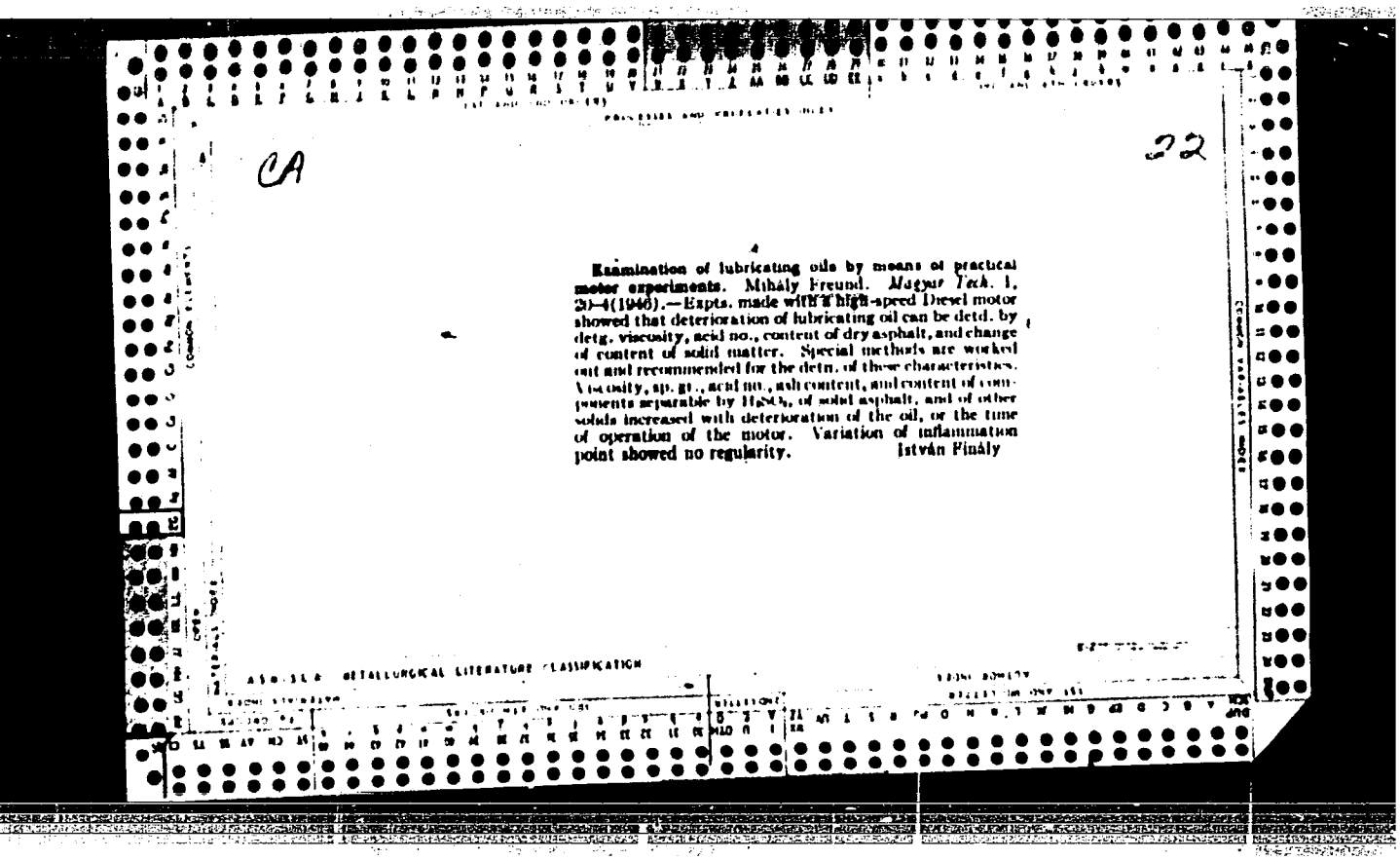

CA

22

**Examination of lubricating oils by means of practical motor experiments.** Mihály Freund. *Magyar Tech.* 1, 2)–4(1946).—Expts. made with a high-speed Diesel motor showed that deterioration of lubricating oil can be detd. by detg. viscosity, acid no., content of dry asphalt, and change of content of solid matter. Special methods are worked out and recommended for the detn. of these characteristics. Viscosity, sp. gr., acid no., ash content, and content of components separable by $H_2SO_4$, of solid asphalt, and of other solids increased with deterioration of the oil, or the time of operation of the motor. Variation of inflammation point showed no regularity. István Finály

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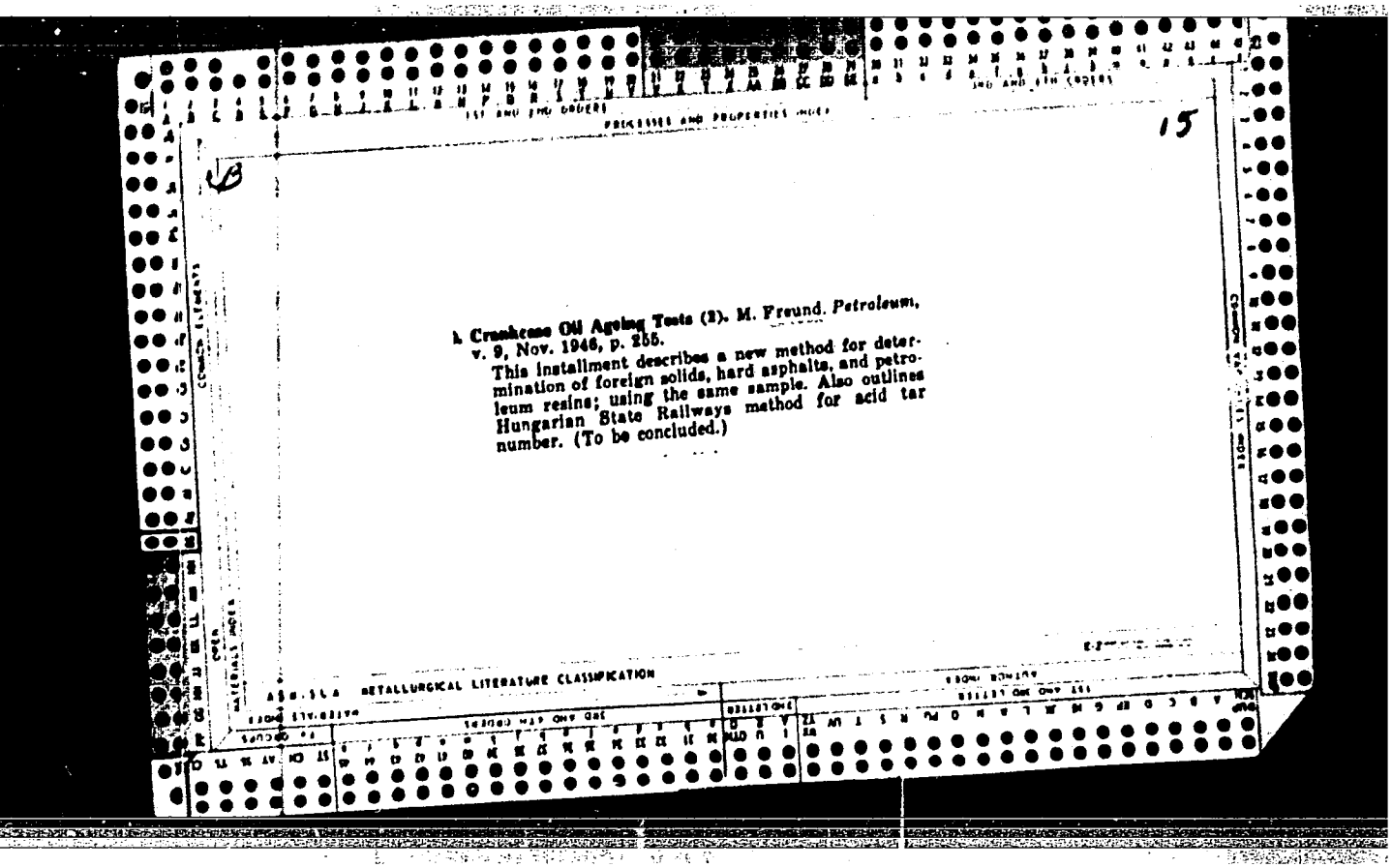

15

1. **Crankcase Oil Ageing Tests (2).** M. Freund. *Petroleum*, v. 9, Nov. 1946, p. 255.
This installment describes a new method for determination of foreign solids, hard asphalts, and petroleum resins; using the same sample. Also outlines Hungarian State Railways method for acid tar number. (To be concluded.)

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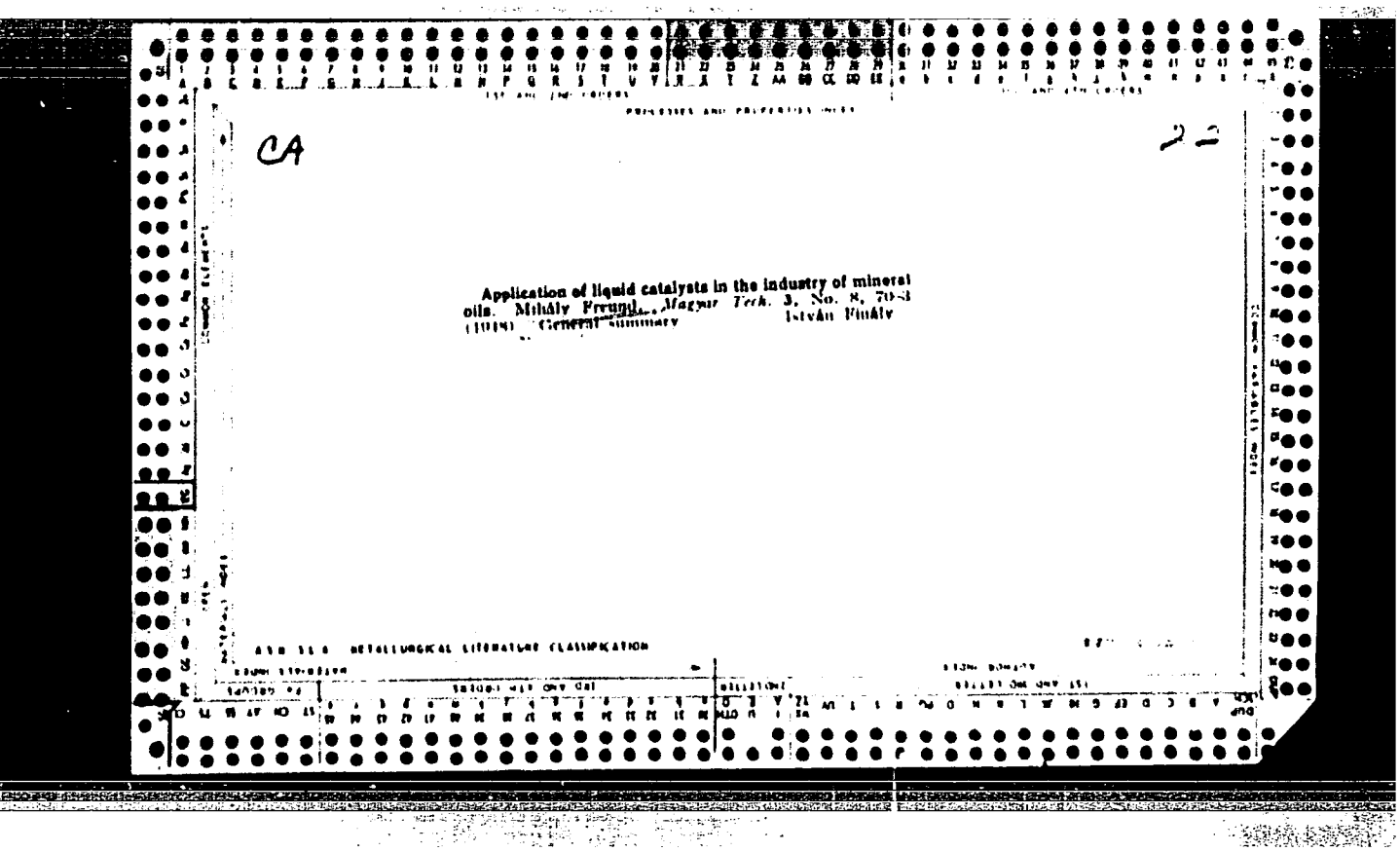


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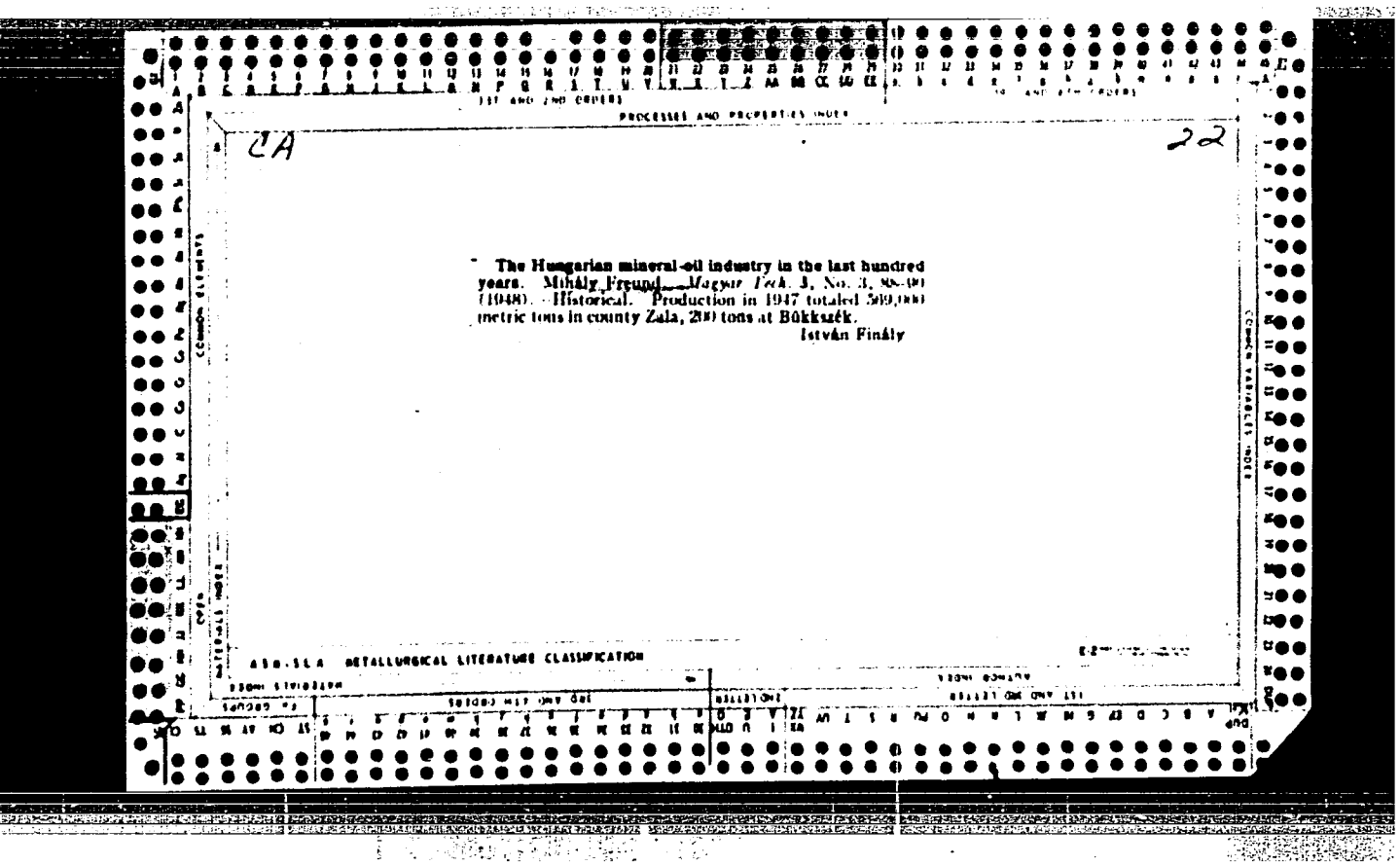
1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX



CA 22

**The Hungarian mineral-oil industry in the last hundred years.** Mihály Freund. *Magyar Tech.* 3, No. 3, 88-90 (1948). Historical. Production in 1947 totaled 569,000 metric tons in county Zala, 200 tons at Bükkszék.

István Finály

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CA

22

**Determination of the adhesivity of mineral-oil lubricants.** M. Freund (Petroleum Research Inst., Budapest). *Muegyetemi Közlemények* 1949, 15-28 in German). A reproducible *centrifugal method and app.* for detg. the adhesive properties of mineral-oil lubricants on solid surfaces are described. Metal plates were used in the studies. Under given conditions, and with increasing centrifuging time, the amt. of oil adhering to the surface and the thickness of the oil layer reach a limiting value which depends upon the surface properties of the metal and the viscosity of the oil, but is independent of the material of the plates and the chem. compn. of the oil. Fundamentally the detg. property of the oil is the no. of superimposed mol. layers. The surface-tension properties do not play an important role in detg. the strength of the layers.

Felix Saunders

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CA

22

**The manufacture of synthetic lubricants by the Fischer-Tropsch and other processes.** Mihály Freund (Ásványolaj- és Földgázkutató Intézet, Budapest). *Magyar Kém. Lapja* 5, 368-71(1950). A summary with 10 references.
István Finály

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C.A.

**Catalytic dehydrogenation of butane.** József Varga and Mihály Freund (Univ. Tech. Sci., Budapest, Hung.) *Magyar Kém. Folyóirat* 56, 21–4 (1950).—An exptl. tube furnace was constructed from Cr steel with inner vol. of 100 ml.; a spiral Cu tube served as the preheater. Both tubes were located vertically and heated by an elec. current to 525–75° (pre-heater), 600–80° (furnace). Butane sepd. from Hungarian natural gas, consisting of butane 83.9, isobutane 15.6, and propane 0.5 vol. %, was introduced at the lower end of the vertical system. Various amts. of a catalyst were used, with $Cr_2O_3$ as the active substance and $\gamma$-$Al_2O_3$ as the carrier. A medium amt. of catalyst gave the best results; the dehydrogenated gas after 45 min. treatment contained butylene and propylene 23.0, ethylene 0.8 vol.%.

István Finály

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C.A.

42

**Evaluation of lubricating oils for automobile motors.** Mihaly Freund and István Pallay (Research Inst. Mineral Oils Nat. Gas, Budapest). *Magyar Kem. Folyoirat* 56, 97-9(1950). Lubricating oils of Hungarian, Russian, and American origin and blends obtained by mixing them were oxidized in the lab. by the Polish and British standard methods. Driving tests were also conducted with passenger cars by driving the cars for 5000 km. and investigating the quality of the oil. The results of the lab. tests were identical to those of the driving tests in relation to the properties affecting the condition of motors. A correlation was observed among percentage increase in solid substances (0.37-51%), Conradson no. (0.65-1.31), percentage increase of Conradson no. (0.08-61%) and oil consumption (0.50-00 kg./). higher nos. showed a deterioration in quality. In the evaluation of lubricating oils of identical viscosity, mol. wt., or av. b.p., a correlation of quality to d. was observed; increasing d. showed a deterioration in quality. I. F.

**Adhesive properties of lubricating oils.** Mihaly Freund (Research Inst. Mineral Oils Nat. Gas, Budapest). *Magyar Kém. Folyoirat* 56, 149-51(1950). See C. A. 44, 10154. István Pallay

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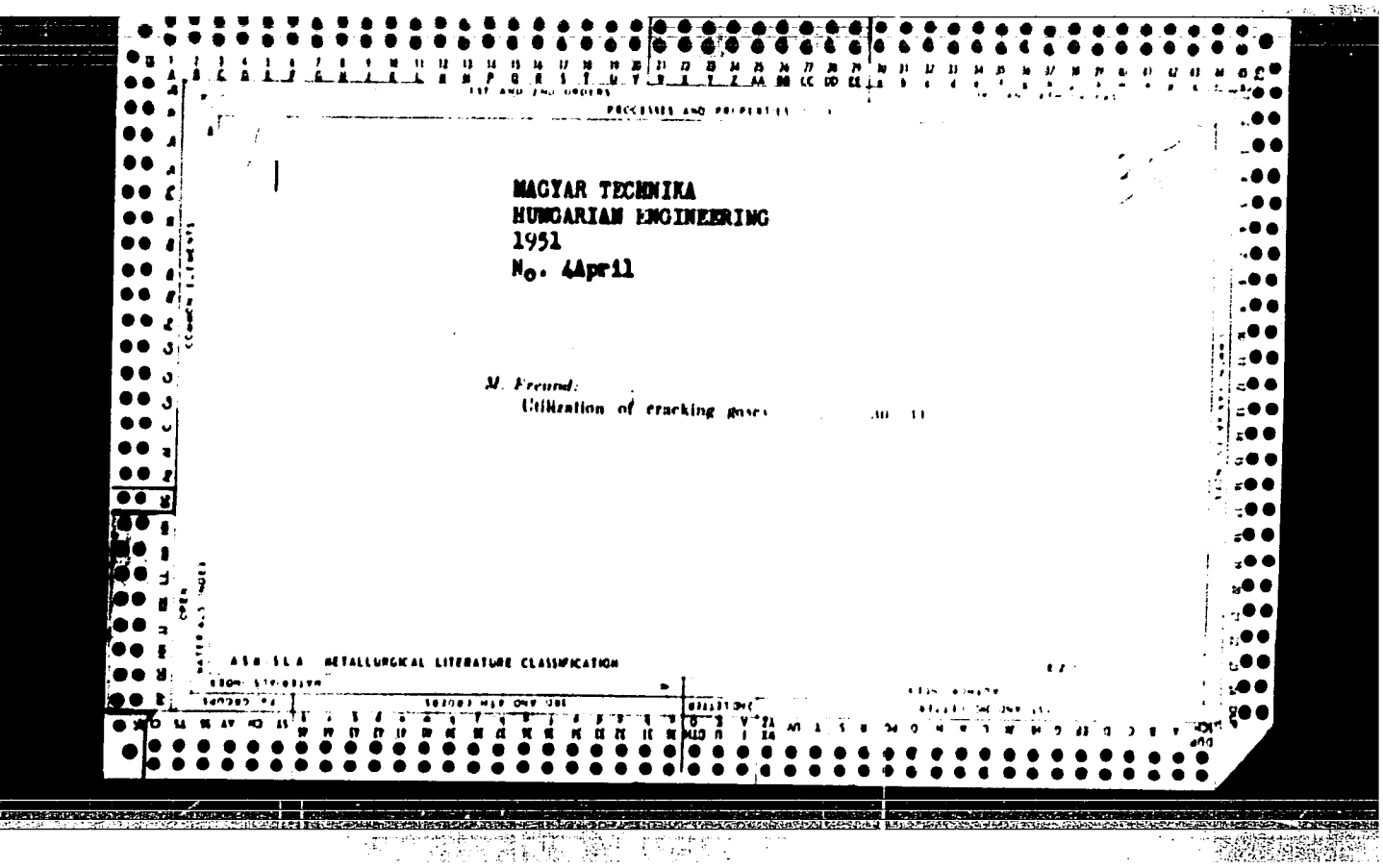

MAGYAR TECHNIKA
HUNGARIAN ENGINEERING
1951
No. 4April

M. Freund:
Utilization of cracking gases

ASTIA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

Freund, M.

1. **The formation of lubricating oil films on metal surfaces** (In English) — M. Freund. (Acta Chimica Academiae Scientiarum Hungaricae — Vol. 3, 1953, No. 1, pp. 1 - 11, 10 figs.)

The phenomena of adhesion of oil films were studied on metal disks dipped into mineral lubricants and centrifuged at speeds of 5,000 to 30,000 rpm. Experimental data and microphotographs showed that after centrifuging at different speeds the structure and the thickness of the oil films forming in straight oil and in oil containing additives differ under certain conditions

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[illegible]

"[illegible] in the Mineral Oil Industry", [illegible], ([illegible], Vol. [illegible], No. 10/11, Oct./Nov. 19[illegible], Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAI), [illegible], Vol. [illegible], No. [illegible], March 19[illegible], Incl.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620014-0

Freund, Mihály

New approaches to petroleum refining processes. I. Research on adsorption. Mihály Freund (Hungarian Petroleum Natural Gas Research Inst., Veszprém). Mag- [illegible] Adsorption methods were in- [illegible] order to eliminate disadvantages connected [illegible] refining processes. The proposed methods [illegible] for [illegible] according to them [illegible] application of theoretical [illegible] The rules governing adsorption [illegible] the selection of the adsorbent and the [illegible] the regeneration of the chromatographic column. [illegible] that from any mixt. of heptane and [illegible] component can be sepd. by adsorption. [illegible] heptane system presents well-defined concn. ranges which are amenable to selective adsorption. From a gasoline-toluene mixt. contg. cyclohexane and heptane, the toluene is preferentially adsorbed at all concns. The need for theoretical consideration of the heats of adsorption and of selective adsorption is emphasized. III. Separation of aromatics from gasoline by adsorption. Ervin Kerényi. *Ibid.* 98-102.—Two quant. methods were developed for the detn. of aromatic hydrocarbons in petroleum distillates. A micromethod consists in passing the sample through a short silica gel column and comparing n of the original sample and of the first drop of the filtrate which is free from aromatic compds. In a macromethod a selective solvent having a large adsorptive capacity, such as EtOH, is used and the fractions are identified by n. IV. Manufacture of medicinal white oils through cyclic adsorption refining. Endre Vámos and Iván Hadfy Kovács. *Ibid.* [illegible] method, with silica gel and a [illegible] [illegible] hydrocarbons by extractive urea crystallization. [illegible] Berthy and [illegible] Bathory. *Ibid.* [illegible]

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JM

LFH

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FREUND, M.

The processing of Nagyiengyel crude oil. Mihály Freund (Hung. Mineral Oil and Nat. [illegible]

[illegible] asphalt 12, paraffin wax 4, S 3.5, and ash 0.03%, of which 18% is V-O. Virgin gasoline and kerosine [illegible] have S contents within specifications [illegible] most of the S is present in stable cyclic compounds [illegible] liquid products can be increased to 70-80% by raising temps and lowering pressures during [illegible] [illegible] higher tending wax [illegible] [illegible] can also be recovered. Peter D. Moskovits

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- Freund, M.

HUNG.

2034. FIFTH ANNIVERSARY OF FOUNDATION OF HUNGARIAN RESEARCH INSTITUTE FOR PETROLEUM AND NATURAL GAS. Freund, M. (Magy. Chem. Lap., 1954, vol. 9, (1), 3-5; title in Ref. Zh. Khim. (Ref. Zh. Chem., Moscow), 1954, (13), 282).

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HUNGARY/Chemical Technology - Chemical Products and Their Applications - Natural Gases and Petroleum Processing. Engine and Rocket Fuels, Lubricants. H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37542

Author : Freund, M.
Inst :
Title : Aging of Engine Greasing Oils.

Orig Pub : Magyar tud. akad. kem. tud. oszt. közl. 1955, 6, No 12, 237-238

Abstract : No abstract.

Card 1/1

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FREUND, MICHAEL

Changes of motor oils during use. Michael Freund (Ungar. Erdöl u. Erdgas Forschungsinst., Budapest). Erdöl u. Kohle 5, 712–15 (1953).—Tests on a 1-cylinder Diesel engine showed that detergents improved the deposit-acting but they also increased the sludge content of the used oil. Sludge was detd. by dils. of the used oil with CCl4 and, with HCl. The sludge consisted mainly of soot formed during combustion of the fuel. High S fuels give more engine deposits than fuels of low S content. Micrographs and electronmicrographs are presented to show the dispersion of soot in oil by detergent additives.

O. C. Elmer

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Freund, M

HUNGARY/Organic Chemistry. Synthetic Organic Chemistry. E-2

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26912 K.

Author : Freund, Mihály; Bathory, Jozsef; Érdi, Niklos.
Inst :
Title : Formation of Adducts with Urea. 4. Preparation of Paraffin and Ceresin Under Laboratory and Semi-industrial Conditions.

Orig Pub: Budapest, 1955, 11, 114 1.

Abstract: No abstract.

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42. Rheologic properties of bitumens. V. Freund, I. Vajta. *Magyar Kémiai Folyóirat*, Vol. [illegible], No. 9, pp. 277—282, 12 figs., 1 tab.

The rheologic properties of different kinds of domestic bitumens were investigated as a function of the shear velocity and temperature by means of a Höppler type consistometer. Other properties of the domestic bitumen produced by different processes were investigated at the same time (*e. g.* ageing phenomena, *etc.*) and the degree of complex flow was determined. It was found that the bitumen originating from *Matzen* and produced by distillation processes is a pure viscous sol-type modification containing some well-peptized particles in the investigated temperature range of 20 to 90 °C. The bitumen originating from *Nagylengyel* may be considered as a sol-type bitumen bordering on the gel state in the investigated temperature range. By increasing the distillation temperature these products are converted with moderate velocity to a gel-type structure whereas blowing accelerates this conversion more definitely.

Chem 2 3000

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